

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 August 2003 (14.08.2003)

PCT

(10) International Publication Number  
**WO 03/065993 A2**

(51) International Patent Classification<sup>7</sup>: **A61K**  
(21) International Application Number: **PCT/US03/03482**  
(22) International Filing Date: 4 February 2003 (04.02.2003)  
(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
60/353,171 4 February 2002 (04.02.2002) US  
60/363,534 13 March 2002 (13.03.2002) US  
60/370,248 8 April 2002 (08.04.2002) US  
60/371,134 10 April 2002 (10.04.2002) US  
60/371,135 10 April 2002 (10.04.2002) US  
60/371,150 10 April 2002 (10.04.2002) US  
60/371,413 11 April 2002 (11.04.2002) US  
60/373,601 19 April 2002 (19.04.2002) US  
60/373,602 19 April 2002 (19.04.2002) US  
60/374,139 22 April 2002 (22.04.2002) US  
60/378,370 8 May 2002 (08.05.2002) US  
60/378,652 9 May 2002 (09.05.2002) US  
60/378,665 9 May 2002 (09.05.2002) US  
60/378,653 9 May 2002 (09.05.2002) US  
60/394,253 9 July 2002 (09.07.2002) US  
60/394,230 9 July 2002 (09.07.2002) US  
60/407,688 4 September 2002 (04.09.2002) US  
60/442,900 28 January 2003 (28.01.2003) US

(US). **JOHNSON, Kory** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **HIGGS, Brandon** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **CASTLE, Arthur** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **ORR, Michael** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **ELASHOFF, Michael** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US).

(74) Agents: **TUSCAN, Michael, S. et al.**; Morgan, Lewis & Bockius LLP, 1111 Pennsylvania Avenue, NW, Washington, DC 20004 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- without international search report and to be republished upon receipt of that report
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant (*for all designated States except US*): **GENE LOGIC, INC.** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MENDRICK, Donna** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **PORTER, Mark** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787

(54) Title: **PRIMARY RAT HEPATOCYTE TOXICITY MODELING**

(57) Abstract: The present invention is based on the elucidation of the global changes in gene expression and the identification of toxicity markers in tissues or cells exposed to a known toxin. The genes may be used as toxicity markers in drug screening and toxicity assays. The invention includes a database of genes characterized by toxin-induced differential expression that is designed for use with microarrays and other solid-phase probes.

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**PRIMARY RAT HEPATOCYTE TOXICITY MODELING**

**INVENTORS:** Donna MENDRICK, Mark PORTER, Kory JOHNSON, Brandon HIGGS, Arthur CASTLE, Michael ORR and Michael ELASHOFF

**RELATED APPLICATIONS**

[0001] This application claims priority under 35 U.S.C. §119(e) to U.S. Provisional Applications 60/353,171, filed February 4, 2002; 60/363,534, filed March 13, 2002; 60/371,135, filed April 10, 2002; 60/371,134, filed April 10, 2002; 60/370,248, filed April 8, 2002; 60/371,150, filed April 10, 2002; 60/371,413, filed April 11, 2002; 60/373,601, filed April 19, 2002; 60/374,139, filed April 22, 2002; 60/394,253, filed July 9, 2002; 60/378,652, filed May 9, 2002; 60/373,602, filed April 19, 2002; 60/378,653, filed May 9, 2002; 60/378,665, filed May 9, 2002; 60/378,370, filed May 8, 2002; 60/394,230, filed July 9, 2002; and 60/407,688, filed September 4, 2002, all of which are herein incorporated by reference in their entirety.

[0002] This application is also related to pending U.S. Applications 09/917,800, filed July 31, 2001, 10/060,087, filed January 31, 2002, and PCT/US03/\_\_\_\_\_, entitled "Molecular Hepatotoxicology Modeling," filed January 31, 2003, as well as to PCT Application PCT/US01/23872, filed July 31, 2001, all of which are herein incorporated by reference in their entirety.

**SEQUENCE LISTING SUBMISSION ON COMPACT DISC**

[0003] The Sequence Listing submitted concurrently herewith on compact disc under 37 C.F.R. §§1.821(c) and 1.821(e) is herein incorporated by reference in its entirety. Four copies of the Sequence Listing, one on each of four compact discs are provided. Copy 1, Copy 2 and Copy 3 are identical. Copies 1, 2 and 3 are also identical to the CRF. Each electronic copy of the Sequence Listing was created on February 3, 2003 with a file size of 6321 KB. The file names are as follows: Copy 1- gl5113wo.txt; Copy 2- gl5113wo.txt; Copy 3- gl5113wo.txt; CRF- gl5113wo.txt.

**BACKGROUND OF THE INVENTION**

[0004] The need for methods of assessing the toxic impact of a compound, pharmaceutical agent or environmental pollutant on a cell or living organism has led to the development of procedures which utilize living organisms as biological monitors. The simplest and most convenient of these systems utilize unicellular microorganisms such as yeast and bacteria, since they are most easily maintained and manipulated. Unicellular screening systems also



often use easily detectable changes in phenotype to monitor the effect of test compounds on the cell. Unicellular organisms, however, are inadequate models for estimating the potential effects of many compounds on complex multicellular animals, as they do not have the ability to carry out biotransformations to the extent or at levels found in higher organisms.

[0005] The biotransformation of chemical compounds by multicellular organisms is a significant factor in determining the overall toxicity of agents to which they are exposed. Accordingly, multicellular screening systems or screening systems using isolated eukaryotic cells may be preferred or required to detect the toxic effects of compounds. The use of multicellular organisms as toxicology screening tools has been significantly hampered, however, by the lack of convenient screening mechanisms or endpoints, such as those available in yeast or bacterial systems. In addition, previous attempts to produce toxicology prediction systems have failed to provide the necessary modeling data and statistical information to accurately predict toxic responses (*e.g.*, WO 00/12760, WO 00/47761, WO 00/63435, WO 01/32928, WO 01/38579).

#### **SUMMARY OF THE INVENTION**

[0006] The present invention is based on the elucidation of the global changes in gene expression in primary hepatocytes exposed to known toxins; in particular hepatotoxins, as compared to unexposed cells as well as the identification of individual genes that are differentially expressed upon toxin exposure.

[0007] In various aspects, the invention includes methods of predicting at least one toxic effect of a compound, predicting the progression of a toxic effect of a compound, and predicting the hepatotoxicity of a compound. The invention also includes methods of identifying agents that modulate the onset or progression of a toxic response. Also provided are methods of predicting the general pathology classes and cellular pathways that a compound modulates in a cell. The invention includes methods of identifying agents that modulate protein activities.

[0008] In a further aspect, the invention provides probes comprising sequences that specifically hybridize to genes in Tables 1-5XX. Also provided are solid supports comprising at least two of the previously mentioned probes. The invention also includes a computer system that has a database containing information identifying the expression level in a tissue or cell sample exposed to a hepatotoxin of a set of genes comprising at least two genes in Tables 1-5XX.

**DETAILED DESCRIPTION**

[0009] Many biological functions are accomplished by altering the expression of various genes through transcriptional (*e.g.* through control of initiation, provision of RNA precursors, RNA processing, etc.) and/or translational control. For example, fundamental biological processes such as cell cycle, cell differentiation and cell death are often characterized by the variations in the expression levels of groups of genes.

[0010] Changes in gene expression are also associated with the effects of various chemicals, drugs, toxins, pharmaceutical agents and pollutants on an organism or cells. For example, the lack of sufficient expression of functional tumor suppressor genes and/or the over expression of oncogene/protooncogenes after exposure to an agent could lead to tumorigenesis or hyperplastic growth of cells (Marshall, *Cell*, 64: 313-326 (1991); Weinberg, *Science*, 254:1138-1146 (1991)). Thus, changes in the expression levels of particular genes (*e.g.* oncogenes or tumor suppressors) may serve as signposts for the presence and progression of toxicity or other cellular responses to exposure to a particular compound.

[0011] Monitoring changes in gene expression may also provide certain advantages during drug screening and development. Often drugs are screened for the ability to interact with a major target without regard to other effects the drugs have on cells. These cellular effects may cause toxicity in the whole animal, which prevents the development and clinical use of the potential drug.

[0012] The present inventors have examined primary rat hepatocytes exposed to the known hepatotoxins which induce detrimental liver effects, to identify global and individual changes in gene expression induced by these compounds. These global changes in gene expression, which can be detected by the production of expression profiles, as well as the individual genes, provide useful toxicity markers that can be used to monitor toxicity and/or toxicity progression by a test compound. Expression profiles, as well as the individual markers, may also be used to monitor or detect various disease or physiological states, disease progression, drug efficacy and drug metabolism.

**Identification of Toxicity Markers**

[0013] To evaluate and identify gene expression changes that are predictive of toxicity, studies using selected compounds with well characterized toxicity have been conducted by the present inventors to catalogue altered gene expression during exposure *in vivo* and *in vitro*. In the present study, amiodarone, alpha-naphthylisothiocyanate (ANIT), acetaminophen (APAP), AY-25329, carbamazepine, carbon tetrachloride, chlorpromazine, CI-1000,

clofibrate, CPA, diclofenac, diflunisal, dimethylnitrosamine (DMN), 17 $\alpha$ -ethinylestradiol, gemfibrozil (Lopid®), hydrazine, imipramine (Janimine), indomethacin, lipopolysaccharide, lovastatin (Mevacor®), methotrexate, phenobarbital, tacrine, tamoxifen, tetracycline, valproate and Wy-14643 were selected as a known hepatotoxins.

[0014] Amiodarone (Cordarone®) is an anti-arrhythmic agent whose chemical structure contains a benzofuran ring (ring A) coupled to a p-OH-benzene structure substituted with 2 iodines and a diethyl-ethanolamine side chain (ring B). This drug is known to cause damage to the liver and has been shown to adversely effect the mitochondria by uncoupling oxidative phosphorylation and inhibiting beta-oxidation and respiration. Inhibition of respiration decreases ATP and increases production of reactive oxygen species, which in turn cause lipid peroxidation. The steatosis and hepatitis observed following treatment with amiodarone are believed to be due, at least in part, to lipid peroxidation products (Spaniol *et al.*, *J Hepatol* 35(5):628-636 (2001); Berson *et al.*, *Gastroenterology* 114:764-774, (1998)).

[0015] Aromatic and aliphatic isothiocyanates are commonly used soil fumigants and pesticides (Shaaya *et al.*, *Pesticide Science* 44(3):249-253 (1995); Cairns *et al.*, *J Assoc Official Analytical Chemists* 71(3):547-550 (1988)). These compounds are also environmental hazards, because they remain as toxic residues in plants (Cerny *et al.*, *J Agricultural and Food Chemistry* 44(12):3835-3839 (1996)) and because they are released from the soil into the surrounding air (Gan *et al.*, *J Agricultural and Food Chemistry* 46(3):986-990 (1998)).

[0016] Exposure to  $\alpha$ -naphthylisothiocyanate (ANIT) has been shown to increase serum levels of total bilirubin, alkaline phosphatase, serum glutamic oxaloacetic transaminase and serum glutamic pyruvic transaminase, while total bile flow was reduced, all of which are indications of severe biliary dysfunction. ANIT also induces jaundice and cholestasis (the condition caused by failure to secrete bile, resulting in plasma accumulation of bile substances, liver cell necrosis and bile duct obstruction) (Tanaka *et al.*, *Clinical and Experimental Pharmacology and Physiology* 20:543-547 (1993)). ANIT fails to produce extensive necrosis, but was found to produce inflammation and edema in the portal tract of the liver (Maziara *et al.*, *Toxicol Appl Pharmacol* 110:365-373 (1991)). ANIT-induced hepatotoxicity may also be characterized by cholangiolitic hepatitis and bile duct damage. Acute hepatotoxicity caused by ANIT in rats is manifested as neutrophil-dependent necrosis of bile duct epithelial cells (BDECs) and hepatic parenchymal cells. These changes mirror the cholangiolitic hepatitis found in humans (Hill, *Toxicol Sci* 47:118-125 (1999)).

[0017] Histological changes include an infiltration of polymorphonuclear neutrophils and elevated number of apoptotic hepatocytes (Calvo *et al.*, *J Cell Biochem* 80(4):461-470 (2001)). Other known hepatotoxic effects of exposure to ANIT include a damaged antioxidant defense system, decreased activities of superoxide dismutase and catalase (Ohta *et al.*, *Toxicology* 139(3):265-275 (1999)), and the release of proteases from the infiltrated neutrophils, alanine aminotransferase, cathepsin G, elastase, which mediate hepatocyte killing (Hill *et al.*, *Toxicol Appl Pharmacol* 148(1):169-175 (1998)).

[0018] Acetaminophen (APAP) is a widely used analgesic and antipyretic agent that is an effective substitute for aspirin. Although acetaminophen does not have anti-inflammatory properties, it is preferably given to patients with ulcers or patients in whom prolonged clotting times would not be desirable. It also preferably taken by people who do not tolerate aspirin well.

[0019] Acetaminophen is metabolized to *N*-acetyl-*p*-benzoquinoneimine (NAPQI) by *N*-hydroxylation in a cytochrome P450-mediated process. This highly reactive intermediate, which reacts with sulfhydryl groups in glutathione, and in other liver proteins following the depletion of glutathione, can cause centrilobular hepatic necrosis (particularly in zone 3), renal tubular necrosis, and hepatic and renal failure (Goodman and Gilman's *The Pharmacological Basis of Therapeutics, Ninth Ed.*, Hardman *et al.*, eds., pp. 631-633, McGraw-Hill, New York, 1996; Chanda *et al.*, *Hepatology* 21(2):477-486 (1995)). Less serious side effects include skin rashes (erythemas and urticarias) and allergic reactions.

[0020] Upon treatment of rats with acetaminophen, hepatotoxicity can be observed 24 hours after dosing, as determined by statistically significant elevations of ALT and AST in the serum and by hepatocellular necrosis visualized at the light microscopic level (Hessel *et al.*, *Braz J Med Biol Res* 29(6):793-796 (1996); Bruck *et al.*, *Dig Dis Sci* 44(6):1228-1235 (1999)). High, but non-lethal, doses of acetaminophen given to rats also produced elevated levels of genes involved in hepatic acute phase response and liver cell maintenance and repair: arginase, beta-fibrinogen, alpha 1-acid glycoprotein, alpha-tubulin, histone 3, TGF beta and cyclin d. Expression levels of genes regulated by the cell cycle were decreased (Tygstrup *et al.*, *J Hepatol* 25(2):183-190 (1996); Tygstrup *et al.*, *J Hepatol* 27(1):156-162 (1997)). In mice, expression levels of genes that encode growth arrest and cell cycle regulatory proteins were increased, along with expression levels of stress-induced genes, transcription factor LRG-21, SOCS-2 (cytokine signaling repressor) and PAI-1 (plasminogen activator inhibitor-1) (Reilly *et al.*, *Biochem Biophys Res Comm* 282(1):321-328 (2001)).

[0021] AY-25329 is a phenothiazine that has been shown to be toxic in liver and in kidney tissue, where it can cause nephrosis. Phenothiazines are a class of psychoactive drugs that are used to treat schizophrenia, paranoia, mania, hyperactivity in children, some forms of senility, and anxiety (<http://www.encyclopedia.com/articlesnew/36591.html>). Side effects associated with prolonged use of these drugs are reduced blood pressure, Parkinsonism, reduction of motor activity, and visual impairment.

[0022] The present inventors have noted indications of liver and renal effects of AY-25329 by changes in serum chemistry. As early as 6 hours after the first dose, statistically significant increases in serum levels of creatinine, BUN, ALT, triglycerides and cholesterol were observed. Most of these markers of renal and liver dysfunction remained altered throughout the 14 day study period. Light microscopic analysis revealed effects in the liver as early as 6 and 24 hours, as evidenced by an increased number of hepatocytic mitotic figures and decreased glycogen content. Following 14 days of repeated dosing, nephrosis and alterations in the peripheral lobes of the liver and in the cytoplasm of hepatocytes were evident in rats dosed with 250 mg/kg/day of AY-25329.

[0023] Carbamazepine (Tegretol®) is an anti-epileptic agent. In rats, it has been shown to induce a number of cytochrome P450 enzymes, in particular CYP2B, and the drug may also cause steatohepatitis in humans (Tateishi et al., *Chem Biol Interact* 117:257-268 (1999); Grieco et al., *Eur J Gastroenterol* 13(8):973-975 (2001)).

[0024] The pathogenesis of acute carbon tetrachloride (CCl<sub>4</sub>)-induced hepatotoxicity follows a well-characterized course in humans and experimental animals resulting in centrilobular necrosis and steatosis, followed by hepatic regeneration and tissue repair. Severity of the hepatocellular injury is also dose-dependent and may be affected by species, age, gender and diet.

[0025] Differences in susceptibility to CCl<sub>4</sub> hepatotoxicity are primarily related to the ability of the animal model to metabolize CCl<sub>4</sub> to reactive intermediates. CCl<sub>4</sub>-induced hepatotoxicity is dependent on CCl<sub>4</sub> bioactivation to trichloromethyl free radicals by cytochrome P450 enzymes (CYP2E1), localized primarily in centrilobular hepatocytes. Formation of the free radicals leads to membrane lipid peroxidation and protein denaturation resulting in hepatocellular damage or death.

[0026] The onset of hepatic injury is rapid following acute administration of CCl<sub>4</sub> to male rats. Morphologic studies have shown cytoplasmic accumulation of lipids in hepatocytes within 1 to 3 hours of dosing, and by 5 to 6 hours, focal necrosis and hydropic swelling of

hepatocytes are evident. Centrilobular necrosis and inflammatory infiltration peak by 24 to 48 hours post dose. The onset of recovery is also evident within this time frame by increased DNA synthesis and the appearance of mitotic figures. Removal of necrotic debris begins by 48 hours and is usually completed by one week, with full restoration of the liver by 14 days.

[0027] Increases in serum transaminase levels also parallel CCl<sub>4</sub>-induced hepatic histopathology. In male Sprague Dawley (SD) rats, alanine aminotransferase (ALT) and aspartate aminotransferase (AST) levels increase within 3 hours of CCl<sub>4</sub> administration (0.1, 1, 2, 3, 4 mL/kg, ip; 2.5 mL/kg, po) and reach peak levels (approximately 5-10 fold increases) within 48 hours post dose. Significant increases in serum -glutathione s-transferase (-GST) levels have also been detected as early as 2 hours after CCl<sub>4</sub> administration (25 L/kg, po) to male SD rats.

[0028] At the molecular level, induction of the growth-related proto-oncogenes, c-fos and c-jun, is reportedly the earliest event detected in an acute model of CCl<sub>4</sub>-induced hepatotoxicity (Schiaffonato *et al.*, *Liver* 17:183-191 (1997)). Expression of these early-immediate response genes has been detected within 30 minutes of a single dose of CCl<sub>4</sub> to mice (0.05 -1.5 mL/kg, ip) and by 1 to 2 hours post dose in rats (2 mL/kg, po; 5 mL/kg, po) (Schiaffonato *et al.*, *supra*, and Hong *et al.*, *Yonsei Medical J* 38:167-177 (1997)). Similarly, hepatic c-myc gene expression is increased by 1 hour following an acute dose of CCl<sub>4</sub> to male SD rats (5 mL/kg, po) (Hong *et al.*, *supra*). Expression of these genes following exposure to CCl<sub>4</sub> is rapid and transient. Peak hepatic mRNA levels for c-fos, c-jun, and c-myc, after acute administration of CCl<sub>4</sub> have been reported at 1 to 2 hours, 3 hours, and 1 hour post dose, respectively.

[0029] The expression of tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ) is also increased in the livers of rodents exposed to CCl<sub>4</sub>, and TNF- $\alpha$  has been implicated in initiation of the hepatic repair process. Pre-treatment with anti-TNF- $\alpha$  antibodies has been shown to prevent CCl<sub>4</sub> - mediated increases in c-jun and c-fos gene expression, whereas administration of TNF- $\alpha$  induced rapid expression of these genes (Brucoleri *et al.*, *Hepatology* 25:133-141 (1997)). Up-regulation of transforming growth factor- $\beta$  (TGF- $\beta$ ) and transforming growth factor receptors (TBR1-III) later in the repair process (24 and 48 hours after CCl<sub>4</sub> administration) suggests that TGF- $\beta$  may play a role in limiting the regenerative response by induction of apoptosis (Grasl-Kraupp *et al.*, *Hepatology* 28:717-7126 (1998)).

[0030] Chlorpromazine (Thorazine®) is a central nervous system depressant that is used as a sedative and also as an anti-nausea or anti-itching medication. The mechanism of action is not known. The drug induces canalicular cholestasis, a condition characterized by a decrease in the volume of bile formed and impaired secretion of solutes into bile, resulting in elevated serum levels of bile salts and bilirubin. Chlorpromazine has also been shown to inhibit bile acid uptake and canalicular contractility. Bile plugs can form in the bile ducts and canaliculi. Drug-induced cholestasis is also associated with cell swelling, inflammation and cell death (Casarett and Doull's Toxicology: The Basic Science of Poisons, 6th Ed., Klaassen et al. eds., pp. 476-486, McGraw-Hill Medical Pub. Div., New York, 2001).

[0031] CI-1000 (4H-pyrrolo:3,2-d:pyrimidin-4-one, 2-amino-3,5-dihydro-7-(3-thienylmethyl)-monohydrochloride monohydrate) is a compound with anti-inflammatory properties. After treatment with CI-1000, increased serum ALT levels, a standard marker of liver toxicity, were observed in dogs.

[0032] Clofibrate, a halogenated phenoxypropanoic acid derivative (ethyl ester of clofibric acid), is an antilipemic agent. The exact mechanism by which clofibrate lowers serum concentrations of triglycerides and low-density lipoprotein (LDL) cholesterol, as well as raising high-density lipoprotein (HDL) cholesterol is uncertain. The drug has several antilipidemic actions, including activating lipoprotein lipase, which enhances the clearance of triglycerides and very-low-density lipoprotein (VLDL) cholesterol, inhibition of cholesterol and triglyceride biosynthesis, mobilization of cholesterol from tissues, increasing fecal excretion of neutral steroids, decreasing hepatic lipoprotein synthesis and secretion, and decreasing free fatty acid release.

[0033] Clofibrate has a number of effects on the rat liver, including hepatocellular hypertrophy, cellular proliferation, hepatomegaly, induction of CYP450 isozymes, and induction of palmitoyl CoA oxidation. Long term administration of clofibrate causes increased incidence of hepatocellular carcinoma, benign testicular Leydig cell tumors, and pancreatic acinar adenomas in rats. Clofibrate induces proliferation of peroxisomes in rodents and this effect, rather than genotoxic damage, is believed to be the causative event in rodent carcinogenesis (AHFS Drug Information Handbook 2001, McEvoy, ed., pp.1735-1738; Electronic Physicians' Desk Reference- Atromid-S (clofibrate) at www.pdr.net; Brown and Goldstein, "Drugs used in the treatment of hyperlipoproteinemias," in Goodman and Gilman's The Pharmacological Basis of Therapeutics, Eighth ed., Goodman et al., eds., pp. 874-896, Pergamon Press, New York, 1990).

[0034] Clofibrate also increases hepatic lipid content and alters its normal composition by significantly increasing levels of phosphatidylcholine and phosphatidyl-ethanolamine (Adinehzadeh *et al.*, *Chem Res Toxicol* 11(5):428-440 (1998)). A rat study of liver hyperplasia and liver tumors induced by peroxisome proliferators revealed that administration of clofibrate increased levels of copper and altered copper-related gene expression in the neoplastic liver tissues. Down-regulation of the ceruloplasmin gene and of the Wilson's Disease gene (which encodes P-type ATPase), along with up-regulation of the metallothionein gene, were noted in these tissues (Eagon *et al.*, *Carcinogenesis* 20(6):1091-1096 (1999)). Clofibrate-induced peroxisome proliferation and carcinogenicity are believed to be rodent-specific, and have not been demonstrated in humans.

[0035] Cyproterone acetate (CPA) is a potent androgen antagonist and has been used to treat acne, male pattern baldness, precocious puberty, and prostatic hyperplasia and carcinoma (Goodman & Gilman's *The Pharmacological Basis of Therapeutics* 9<sup>th</sup> ed., p. 1453, J.G. Hardman *et al.*, Eds., McGraw Hill, New York, 1996). Additionally, CPA has been used clinically in hormone replacement therapy to protect the endometrium and decrease menopausal symptoms and the risk of osteoporotic fracture (Schneider, "The role of antiandrogens in hormone replacement therapy," *Climacteric* 3 (Suppl. 2): 21-27 (2000)).

[0036] In experiments with rats, CPA was shown to induce unscheduled DNA synthesis *in vitro*. After a single oral dose, continuous DNA repair activity was observed after 16 hours. CPA also increased the occurrence of S phase cells, which corroborated the mitogenic potential of CPA in rat liver (Kasper *et al.*, *Carcinogenesis* 17(10): 2271-2274 (1996)). CPA has also been shown to produce cirrhosis in humans (Garty *et al.*, *Eur J Pediatr* 158(5): 367-370 (1999)).

[0037] Diclofenac, a non-steroidal anti-inflammatory drug, has been frequently administered to patients suffering from rheumatoid arthritis, osteoarthritis, and ankylosing spondylitis. Following oral administration, diclofenac is rapidly absorbed and then metabolized in the liver by cytochrome P450 isozyme of the CYC2C subfamily (Goodman & Gilman's *The Pharmacological Basis of Therapeutics* 9<sup>th</sup> ed., p. 637, J.G. Hardman *et al.*, eds., McGraw Hill, New York, 1996). In addition, diclofenac has been applied topically to treat pain due to corneal damage (Jayamanne *et al.*, *Eye* 11(Pt. 1): 79-83 (1997); Domic *et al.*, *Am J Ophthalmol* 125(5): 719-721 (1998)).

[0038] Although diclofenac has numerous clinical applications, adverse side-effects have been associated with the drug, such as corneal complications, including corneal melts,



ulceration, and severe keratopathy (Guidera *et al.*, *Ophthalmology* 108(5): 936-944 (2001)). Another study investigated 180 cases of patients who had reported adverse reactions to diclofenac to the Food and Drug Administration (Banks *et al.*, *Hepatology* 22(3): 820-827 (1995)). Of the 180 reported cases, the most common symptom was jaundice (75% of the symptomatic patients). Liver sections were taken and analyzed, and hepatic injury was apparent one month after drug treatment. An additional report showed that a patient developed severe hepatitis five weeks after beginning diclofenac treatment for osteoarthritis (Bhogaraju *et al.*, *South Med J* 92(7): 711-713 (1999)).

[0039] In one study on diclofenac-treated Wistar rats (Ebong *et al.*, *Afr J Med Sci* 27(3-4): 243-246 (1998)), diclofenac treatment induced an increase in serum chemistry levels of alanine aminotransferase, aspartate aminotransferase, methaemoglobin, and total and conjugated bilirubin. Additionally, diclofenac enhanced the activity of alkaline phosphatase and 5' nucleotidase. A study on humans revealed elevated levels of hepatic transaminases and serum creatine when compared to the control group (McKenna *et al.*, *Scand J Rheumatol* 30(1): 11-18 (2001)).

[0040] Diflunisal, a non-steroidal anti-inflammatory drug (NSAID), is a difluorophenyl derivative of salicylic acid (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9<sup>th</sup> ed., p. 631, J.G. Hardman *et al.*, Eds., McGraw Hill, New York, 1996). It is most frequently used in the treatment of osteoarthritis and musculoskeletal strains. NSAIDs have analgesic, antipyretic and anti-inflammatory actions, however, hepatotoxicity is known to be an adverse side effect of NSAID treatment (Masubuchi *et al.*, *J Pharmacol Exp Ther* 287:208-213 (1998)). Diflunisal has been shown to be less toxic than other NSAIDs, but it can eventually have deleterious effects on platelet or kidney function (Bergamo *et al.*, *Am J Nephrol* 9:460-463 (1989)). Other side effects that have been associated with diflunisal treatment are diarrhea, dizziness, drowsiness, gas or heartburn, headache, nausea, vomiting, and insomnia (<http://arthritisinsight.com/medical/meds/dolobid.html>).

[0041] In a comparative hepatotoxicity study of 18 acidic NSAIDs, diflunisal was shown to increase LDH leakage in rat hepatocytes, a marker for cell injury, when compared to control samples. Additionally, treatment with diflunisal led to decreased intracellular ATP concentrations. In a study comparing the effects of diflunisal and ibuprofen, both drugs appeared to cause abdominal cramping, even during short-term usage. Because the toxic dosages were selected to be below the level at which gastric ulceration occurs, more severe

gastrointestinal effects were not detected. But, increased serum levels of creatinine, a sign of renal injury, were also observed (Muncie *et al.*, *Clin Ther* 11:539-544 (1989)).

[0042] Another model compound, dimethylnitrosamine (DMN), is a known carcinogen and inducer of liver fibrosis and lipid peroxidation. DMN causes oxidative stress in liver cells, which may be the link between chronic liver damage and liver fibrosis. Rats treated with DMN showed diffuse fibronectin deposition, elevated hydroxyproline levels (an indicator of fibrosis), increased levels of collagens, fibrous septa, and impaired oxidative balance. Serum levels of ALT and malondialdehyde (MDA) were increased, while serum levels of SOD were decreased (Vendemiale *et al.*, *Toxicol Appl Pharmacol* 175(2):130-139 (2001); Liu *et al.*, *Zhonghua Gan Zang Bing Za Zhi* 9 Suppl:18-20 (2001)). Other studies in rats have noted severe centrilobular congestion and haemorrhagic necrosis several days after a three-day period of DMN administration. Following additional periods of DMN treatment, the rats developed centrilobular necrosis and intense neutrophilic infiltration, which progressed to severe centrilobular necrosis, fiber deposition, focal fatty deposits, bile duct proliferation, bridging necrosis and fibrosis around the central veins (cirrhosis-like symptoms). A decrease in total protein and increase in DNA were also observed (George *et al.* (2001) *Toxicology* 156(2-3):129-138).

[0043]  $17\alpha$ -ethinylestradiol, a synthetic estrogen, is a component of oral contraceptives, often combined with the progestational compound norethindrone. It is also used in post-menopausal estrogen replacement therapy (PDR 47<sup>th</sup> Ed., pp. 2415-2420, Medical Economics Co., Inc., Montvale, NJ, 1993; Goodman & Gilman's *The Pharmacological Basis of Therapeutics* 9<sup>th</sup> Ed., pp. 1419-1422, J.G. Hardman *et al.* Eds., McGraw Hill, New York, 1996).

[0044] The most frequent adverse effects of  $17\alpha$ -ethinylestradiol usage are increased risks of cardiovascular disease: myocardial infarction, thromboembolism, vascular disease and high blood pressure, and of changes in carbohydrate metabolism, in particular, glucose intolerance and impaired insulin secretion. There is also an increased risk of developing benign hepatic neoplasia. Because this drug decreases the rate of liver metabolism, it is cleared slowly from the liver, and carcinogenic effects, such as tumor growth, may result.

[0045]  $17\alpha$ -ethinylestradiol has been shown to cause a reversible intrahepatic cholestasis in male rats, mainly by reducing the bile-salt-independent fraction of bile flow (BSIF) (Kooen *et al.*, *Hepatology* 27:537-545 (1998)). Plasma levels of bilirubin, bile salts, aspartate aminotransferase (AST) and alanine aminotransferase (ALT) in this study were not changed.

This study also showed that  $17\alpha$ -ethinylestradiol produced a decrease in plasma cholesterol and plasma triglyceride levels, but an increase in the weight of the liver after 3 days of drug administration, along with a decrease in bile flow. Further results from this study are as follows. The activities of the liver enzymes leucine aminopeptidase and alkaline phosphatase initially showed significant increases, but enzyme levels decreased after 3 days. Bilirubin output increased, although glutathione (GSH) output decreased. The increased secretion of bilirubin into the bile without affecting the plasma level suggests that the increased bilirubin production must be related to an increased degradation of heme from heme-containing proteins. Similar results were obtained in another experiment (Bouchard *et al.*, *Liver* 13:193-202 (1993)) in which the livers were also examined by light and electron microscopy. Daily doses of  $17\alpha$ -ethinylestradiol have been shown to cause cholestasis as well, although, following drug treatment, bile flow rates gradually returned to normal (Hamada *et al.*, *Hepatology* 21:1455-1464 (1995)). Liver hyperplasia, possibly in response to the effects of tumor promoters, has also been observed (Mayol, *Carcinogenesis* 13:2381-2388 (1992)).

[0046] The lipid-lowering drug gemfibrozil (Lopid®) is a known peroxisome proliferator in liver tissue, causing both hyperplasia and enlargement of liver cells. Upon exposure to gemfibrozil, hepatocarcinogenesis has been observed in rats and mice, and a decrease in alpha-tocopherol and an increase in DT-diaphorase activity have been observed in rats and hamsters (impaired antioxidant capability). Peroxisome proliferators increase the activities of enzymes involved in peroxisomal beta-oxidation and omega-hydroxylation of fatty acids, which results in oxidative stress (O'Brien *et al.*, *Toxicol Sci* 60(2):271-278 (2001); Carthew *et al.*, *J Appl Toxicol* 17(1):47-51 (1997)).

[0047] Hydrazine ( $\text{NH}_2=\text{NH}_2$ ), is a component of many industrial chemicals, such as aerospace and airplane fuels, corrosion inhibitors, dyes and photographic chemicals. Its derivatives are used in pharmaceuticals such as hydrazine sulphate, used to treat cachexia in cancer patients, isoniazid, an anti-tuberculosis drug, and hydralazine, an anti-hypertensive. These drugs are metabolized *in vivo* to produce hydrazine, among other by-products. Consequently, exposure to hydrazine is by direct contact, *e.g.*, among military and airline personnel, or the result of its production in the body, *e.g.*, in patients with cancer or high blood pressure.

[0048] Studies on rat hepatocytes have shown that hydrazine causes a dose-dependent loss of viability, leakage of LDH, depletion of GSH and ATP and a decreased rate of protein synthesis (Delaney *et al.*, *Xenobiotica* 25(12):1399-1410 (1995)). When administered to rats,

hepatotoxic changes, characterized by GSH and ATP depletion and induction of fatty liver (increases in liver weight and triglycerides, with the appearance of fatty droplets, swelling of mitochondria and appearance of microbodies) were also found to be dose-dependent (Jenner *et al.*, *Arch Toxicol* 68(6):349-357 (1994); Scales *et al.*, *J Toxicol Environ Health* 10(6):941-953 (1982)). The hepatotoxicity, as well as renal toxicity, associated with hydrazine exposure has been linked to free radical damage resulting from oxidative metabolism by cytochrome P4502E1 (CYP2E1), which catalyzes the conjugation of free radicals with reduced glutathione. Although exposure to hydrazine and several hydrazine derivatives increased enzyme levels in kidney tissue, increased enzyme levels were not detected in liver tissue (Runge-Morris *et al.*, *Drug Metab Dispos* 24(7):734-737 (1996)).

[0049] The mutagenic and hepatocarcinogenic effects of hydrazine were examined in hamster livers. *In vivo*, hydrazine reacts with formaldehyde to form formaldehyde hydrazone ( $\text{CH}_2=\text{N}-\text{NH}_2$ ), an alkylating intermediate that methylates guanine in DNA. Upon treatment with hydrazine, liver DNA showed the presence of methylated guanine, DNA adducts and the impairment of maintenance methylation (impaired methylation of deoxycytosine). Hepatic adenomas and carcinomas also developed in a dose-dependent manner and could be correlated with decreased maintenance methylation (FitzGerald *et al.*, *Carcinogenesis* 17(12):2703-2709 (1996)).

[0050] Imipramine, a dibenzazepine derivative, is a tricyclic anti-depressant agent commonly used for the treatment of major depression. Experiments in rats have shown that the drug induces cytochrome P450-mediated formation of reactive metabolites, which cause acute cell injury. Decreased levels of glutathione and protein thiols, as well as lactate dehydrogenase leakage, all standard measures of liver toxicity, were also noted (Masubuchi *et al.*, *Arch Toxicol* 73(3):147-151 (1999)). On rare occasions, imipramine has induced cholestasis and hepatitis in humans (Moskovitz *et al.*, *J Clin Psychiatry* 43(4):165-066 (1982); Horst *et al.*, *Gastroenterology* 79(3):550-544 (1980)).

[0051] Indomethacin is a non-steroidal antiinflammatory, antipyretic and analgesic drug commonly used to treat rheumatoid arthritis, osteoarthritis, ankylosing spondylitis, gout and a type of severe, chronic cluster headache characterized by many daily occurrences and jabbing pain. This drug acts as a potent inhibitor of prostaglandin synthesis; it inhibits the cyclooxygenase enzyme necessary for the conversion of arachidonic acid to prostaglandins (PDR 47<sup>th</sup> Ed., Medical Economics Co., Inc., Montvale, NJ, 1993; Goodman & Gilman's The Pharmacological Basis of Therapeutics 9<sup>th</sup> Ed., J.G. Hardman *et al.* eds., pp. 1074-1075, 1089-

1095, McGraw Hill, New York, 1996; Cecil Textbook of Medicine, 20<sup>th</sup> Ed., part XII, pp. 772-773, 805-808, J. C. Bennett and F. Plum Eds., W. B. Saunders Co., Philadelphia, 1996).

[0052] The most frequent adverse effects of indomethacin treatment are gastrointestinal disturbances, usually mild dyspepsia, although more severe conditions, such as bleeding, ulcers and perforations can occur. Hepatic involvement is uncommon, although some fatal cases of hepatitis and jaundice have been reported. Renal toxicity can also result, particularly after long-term administration. Renal papillary necrosis has been observed in rats, and interstitial nephritis with hematuria, proteinuria and nephrotic syndrome have been reported in humans. Patients suffering from renal dysfunction risk developing a reduction in renal blood flow, because renal prostaglandins play an important role in renal perfusion.

[0053] In rats, although indomethacin produces more adverse effects in the gastrointestinal tract than in the liver, it has been shown to induce changes in hepatocytic cytochrome P450. In one study, no widespread changes in the liver were observed, but a mild, focal, centrilobular response was noted. Serum levels of albumin and total protein were significantly reduced, while the serum level of urea was increased. No changes in creatinine or aspartate aminotransferase (AST) levels were observed (Falzon *et al.*, *Br J exp Path* 66:527-534 (1985)). In another rat study, a single dose of indomethacin was shown to reduce liver and renal microsomal enzymes, including CYP450, and cause lesions in the GI tract (Fracasso *et al.*, *Agents Actions* 31:313-316 (1990)).

[0054] LPS (lipopolysaccharide) is an endotoxin released by gram-negative bacteria upon breakage or rupture of the cells that induces an acute inflammatory response in mammals and that can cause septic shock. LPS is also a research tool used to initiate liver injury in rats through an inflammatory mechanism. Typically, the membrane components of LPS are lipid-A, KDO (2-keto-3-deoxy-octulosonic acid), core polysaccharides and O-antigen polysaccharides, the polysaccharide units differing from one bacterium to another (Zinsser Microbiology 20th Ed., Joklik *et al.*, eds., pp. 82-87, Appleton & Lange, Norwalk, CT, 1992).

[0055] Primary rat hepatocytes derived from liver parenchymal cells and sinusoidal cells of rats that have been exposed to LPS *in vivo* can directly respond to LPS in cell culture. Numerous effects of LPS-induced endotoxemia can be detected, including elevated levels of nitric oxide synthetase (NOS) with increased nitric oxide and nitrite production, cellular hypertrophy, vacuolization, chromosomal emargination, cytoplasmic DNA fragmentation and necrosis (Pittner *et al.*, *Biochem Biophys Res Commun* 185(1):430-435 (1992); Laskin *et al.*, *Hepatology* 22(1):223-234 (1995); Wang *et al.*, *Am J Physiol* 269(2 Pt 1):G297-304 (1995)).

Other studies have indicated that the presence of Kupffer cells with primary rat hepatocytes is essential for the induction of hepatocyte apoptosis by LPS (Hamada et al., *J Hepatol* 30(5):807-818 (1999)).

[0056] Exposure of rats or primary hepatocytes to LPS induces the expression of a number of acute-phase proteins in the liver. Recent evidence has indicated that rat hepatocytes express soluble CD14 protein, and LPS is capable of markedly increasing levels of CD14 at both the gene expression and protein expression levels (Liu et al., *Infect Immun* 66(11):5089-5098 (1998)). Soluble CD14 is believed to be a critical LPS recognition protein required for the activation of a variety of cells to toxic levels of LPS, even in endothelial and epithelial cells (Pugin et al., *Proc Natl Acad Sci USA* 90(7):2744-2748 (1993)). Another key component of the LPS recognition system is lipopolysaccharide-binding protein (LBP), which binds to LPS. The LPS-LBP complex interacts with the CD14 receptor, inducing LPS sensitive genes. LBP can be induced in hepatocytes isolated from rats that have not been primed with LPS, indicating that this key regulatory pathway is intact in primary rat hepatocytes (Wan et al., *Infect Immun* 63(7):2435-2442 (1995)).

[0057] Lovastatin (Mevacor®) is a cholesterol-lowering agent belonging to a class of compounds, the statins, that are potent inhibitors of HMG-CoA reductase. This enzyme catalyzes the conversion of HMG-CoA to mevalonate, the rate-controlling enzyme in cholesterol biosynthesis. HMG-CoA reductase inhibitors block the production of cholesterol in the liver leading to a reduction of LDL particles in the plasma. Lovastatin has additional effects on lipid metabolism, including depletion of intracellular pools of sterols and increased synthesis of LDL receptors, leading to enhanced removal of LDL and LDL precursors from plasma. Upon treatment with lovastatin, plasma levels of VLDL, IDL and triglycerides also decrease. Oral doses of lovastatin are extensively absorbed by the liver, and the drug is excreted primarily via the liver; less than 13% of its metabolites are excreted in the urine (Goodman and Gilman's The Pharmacological Basis of Therapeutics, Ninth Ed., Hardman et al., eds., pp. 884-888, McGraw-Hill, New York, 1996).

[0058] The most frequent side effects are liver damage, characterized by elevated levels of hepatic transaminases (e.g., AST and ALT), creatinine phosphokinase and alkaline phosphatase, and myopathy, characterized by muscle pain and destruction of skeletal muscle cells. Cases of drug-induced hepatitis, accompanied by jaundice and elevated levels of liver enzymes, have also been reported, although the symptoms were reversible following withdrawal of the drug (Huchzermeyer et al., *Deutsch Med Wochenschr* 120(8):252-256

(1995); Heuer *et al.*, *Med Klin* 95(11):642-644 (2000)). Histologic examination of affected liver tissue showed centrilobular necrosis, centrilobular cholestasis, and infiltrates with mononuclear and polymorphonuclear cells, including eosinophils (Grimbert *et al.*, *Dig Dis Sci* 39(9):2032-2033 (1994)).

[0059] Experiments by the present inventors have found that when rats were dosed with lovastatin, at 9 or 90 mg/kg twice a day, no effects were noted in liver tissue after 6 or after 24 hours. After 14 days of treatment at the higher dosage, however, liver cells showed abnormal vacuolization of the cytoplasm. Hepatotoxicity data from other studies of laboratory animals treated with lovastatin have not been widely reported. Therefore, in order to establish a more sensitive model for examining the changes in liver tissue caused by lovastatin, as well as to have a means of examining changes in expression level of individual genes as a result of exposure to lovastatin, experiments in cultured hepatocytes were undertaken.

[0060] Methotrexate is a widely used antineoplastic drug that is also frequently prescribed for the treatment of psoriasis (a disease characterized by abnormal proliferation of epidermal cells), juvenile lymphoblastic leukemia, rheumatoid arthritis, and a number of other cancerous diseases, such as leukemic meningitis and choriocarcinoma. Although generally not metabolized, at high dosages, metabolites such as 7-hydroxy-methotrexate, a nephrotoxin, do accumulate. Methotrexate polyglutamates are retained in the kidneys for weeks and in the liver for months ((Goodman and Gilman's The Pharmacological Basis of Therapeutics, Ninth Ed., Hardman *et al.*, eds., pp. 1243-1247, McGraw-Hill, New York, 1996).

[0061] Methotrexate acts to prevent DNA synthesis and cell replication by inhibiting the rate-limiting enzyme in purine and thymidine synthesis, dihydrofolate reductase (DHFR) (Goodman and Gilman's, *supra*; Schwartz *et al.*, *Proc Nat Acad Sci USA* 89(2):594-598 (1992)). It also acts as an suppressant of cell-mediated immune responses. The biochemical toxicology of methotrexate has been well characterized in man, where long-term administration produces hepatic fibrosis or cirrhosis, especially in heavy drinkers, which is linked to persistent, mild-to-moderate, increases in serum transaminases, alkaline phosphatases and bilirubin (Reynolds *et al.*, *South Med J* 79(5):536-539 (1986); Tolman *et al.*, *J Rheumatol* 12 (Suppl 12):29-34 (1985)). Methotrexate is a rather long-acting, rapidly reversible DHFR inhibitor, despite its high affinity for the target enzymes in many cell types, which may be due to the formation of methotrexate polyglutamates that reduce the ability of DHFR to pass through cell membranes. The toxic effects of methotrexate may be due to the

depletion of tetrahydrofolate cofactors that are required for purine and thymidylate synthesis (methylation reactions in hepatic 1-carbon metabolism) and to the inhibition of folate-dependent enzymes involved in the metabolism of purines and thymidylate, the inhibition caused by the accumulation of methotrexate polyglutamates and dihydrofolate polyglutamates.

[0062] The mechanism of methotrexate-induced hepatotoxicity is not yet fully elucidated, partly because the pathological changes in humans are rather difficult to reproduce in animal models, although experiments in rats have shown that, in a dose-dependent fashion, methotrexate produces liver damage ranging from focal to confluent necrosis of zone 3 hepatocytes, with early stage fibrosis (Hall *et al.*, *Hepatology* 14(5):906-10 (1991)). Other studies in rats have demonstrated that treatment with methotrexate produces intrahepatocytic fat deposits, along with fatty accumulations in hepatocytes that range from fine droplets to large vacuoles. The areas of necrosis showed signs of the hypoxia associated with congestive failure, as well as anemic infarcts, fibrotic foci of the collapse type, atrophy of the hepatic cords, and hemosiderosis (Custer *et al.*, *J Natl Cancer Inst* 58(4):1011-1015 (1977)). Hepatotoxicity probably involves interference with triglyceride and other lipid biosynthetic pathways in the liver. For example, studies on rats have shown that methotrexate inhibits the biosynthesis of lipotropic substances such as methionine and choline through its interference with hepatic 1-carbon metabolism. The drug also inhibits the activity of vitamin B12, another lipotropic factor (Tuma *et al.*, *Biochem Pharmacol* 24:1327-1331 (1975) and impairs RNA and protein synthesis, triglyceride secretion and total triglyceride esterification (Deboyser *et al.*, *Toxic in Vitro* 6(2):129-132 (1992)).

[0063] Methotrexate does not appear to be cytotoxic to cultured primary hepatocytes following short-term exposures (up to 3.5 hr), but significant effects on HepG2 growth curves have been observed at low concentrations during the course of 7-day exposures (Wu *et al.*, *Proc Natl Acad Sci USA* 80(10):3078-3080 (1983)). Additionally, it has been demonstrated that methotrexate increases hepatic glycogenolysis, oxygen consumption and calcium efflux and decreases glutathione levels (Yamamoto *et al.*, *Biochem Pharmacol* 44(4):761-767, (1992); de Oliveira *et al.*, *Res Commun Chem Pathol Pharmacol* 53(2):173-181 (1986); Lindenthal *et al.*, *Eur J Pharmacol* 228(5-6):289-298 (1993)). Experiments on cultured rat hepatocytes have shown that methotrexate also inhibits the activity of hepatic N-acetyltransferase 2 (NAT2), although the drug has only a slight inhibitory effect on rat NAT1,



enzymes that catalyze the acetylation of a variety of therapeutic arylamines (Zaher *et al.*, *Toxicol in Vitro* 11:271-283 (1997)).

[0064] Phenobarbital, a barbiturate, is used as an anti-epileptic, sedative or hypnotic drug and can also be used to treat neuroses with related tension states, such as hypertension, coronary artery disease, gastrointestinal disturbances and preoperative apprehension. Phenobarbital is also found in medications to treat insomnia and headaches (Remington: The Science and Practice of Pharmacy, 19th Ed., A. R. Gennaro ed., pp. 1164-1165, Mack Publishing Co., Easton, Pennsylvania, 1995).

[0065] Phenobarbital induces a variety of drug metabolizing enzymes such as cytochrome P450 oxidoreductase, aldehyde dehydrogenases, UDP-glucuronyltransferase, GSTs, epoxide hydrolase, and an assortment of cytochrome P450 monooxygenases (Waxman *et al.*, *Biochem J* 1281(Pt 3):577-592 (1992); Kaplowitz *et al.*, *Biochem J* 146(2):351-356 (1975); Tank *et al.*, *Biochem Pharmacol* 35(24):4563-4569 (1986). The induction of liver enzymes is usually accompanied by liver enlargement, proliferation of smooth endoplasmic reticulum, and tumor promotion (Waxman *et al.*, *supra*; Rice *et al.*, *Carcinogenesis* 15(2):395-402 (1994); Nims *et al.*, *Carcinogenesis* 8(1):67-71, (1987). Incidences of cholestasis and hepatocellular injury have also been found (Selim *et al.*, *Hepatology* 29(5):1347-1351 (1999); Gut *et al.*, *Environ Health Perspect* 104(Suppl 6):1211-1218 (1999)). Phenobarbital has been classified as nongenotoxic hepatocarcinogen as it induces liver tumors in rodents but lacks detectable signs of genotoxicity using short term *in vivo* or *in vitro* assays (Whysner *et al.*, *Pharmacol Ther* 71(1-2):153-191 (1996)).

[0066] The effects of phenobarbital on phospholipid metabolism in rat liver have been studied. In one study, phenobarbital, administered intraperitoneally (i.p.), was found to cause an increase in the microsomal phosphatidylcholine content. Additionally, levels of glycerophosphate acyltransferase (GAT), phosphatidate cytidyltransferase (PCT), phosphatidate phosphohydrolase (PPH) and choline phosphotransferase (CPT) were significantly increased (Hoshi *et al.*, *Chem Pharm Bull* 38:3446-3448 (1990)).

[0067] Tacrine (1,2,3,4-tetrahydro-9-aminoacridine-hydrochloride), a strong acetylcholinesterase (AChE) inhibitor, is used in the treatment of mild to moderate cases Alzheimer's dementias. Alzheimer's patients have synaptic loss, neuronal atrophy and degeneration of cholinergic nuclei in the forebrain, which are associated with reduced oxidative metabolism of glucose and decreased levels of ATP and acetyl CoA. Administration of AChE inhibitors, such as tacrine, is designed to increase cholinergic

activity to combat this loss (Weinstock, *Neurodegeneration* 4(4):349-356 (1995)). The effect seen in the patients is a reversal of the cognitive and functional decline, but the drug does not appear to change the neurodegenerative process (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9<sup>th</sup> Ed., Hardman *et al.* eds., p. 174, McGraw Hill, New York, 1996).

[0068] Hepatotoxicity caused by tacrine is typically reversible, although cases of severe hepatotoxicity have been seen (Blackard *et al.*, *J Clin Gastroenterol* 26:57-59 (1998)). The toxicity is characterized by decreased levels of protein synthesis and the release of lactate dehydrogenase, as well as by increased transaminase levels and decreased levels of ATP, glycogen and glutathione. The decrease in protein synthesis may represent a signal leading to cell death (Lagadic-Gossman *et al.*, *Cell Biol Toxicol* 14(5):361-373 (1998)).

[0069] Preclinical studies have failed to detect adverse hepatic events, although tacrine displayed cytotoxicity to human hepatoma cell lines and primary rat hepatocytes (Viau *et al.*, *Drug Chem Toxicol* 16:227-239 (1993)). While hepatotoxicity has been found in humans, *in vivo* rat studies have not shown a correlation between tacrine exposure and hepatotoxicity, and the mechanism of action is not completely understood. An *in vitro* study comparing the reaction of human and rat liver microsomal preparations to tacrine showed that the two species reacted differently to the drug, suggesting that the rat may not be the best model for monitoring tacrine-induced elevations in liver marker enzymes (Woolf *et al.*, *Drug Metab Dispos* 21:874-882 (1993)).

[0070] While tacrine does not reveal classic signs of hepatotoxicity in rats, gene expression changes due to tacrine administration can be used to predict that the drug will be a liver toxin in humans. This suggests that toxicogenomics might be able to detect drugs that prove to be toxic in the clinic even when classical but more crude measures in preclinical screening fail to detect toxicity.

[0071] Tamoxifen is a nonsteroidal anti-estrogen used for breast cancer in males and females. Tamoxifen has been associated with changes in liver enzyme levels, disruption of mitochondrial metabolism and, occasionally, with a spectrum of more severe liver abnormalities including fatty liver, cholestasis, hepatic necrosis and NASH (nonalcoholic steatohepatitis) (Duthie *et al.*, *Xenobiotica* 25(10):1151-1164 (1995); Cardoso *et al.*, *Toxicol Appl Pharmacol* 176(3):145-152 (2001); Pinol *et al.*, *Gastroenterol Hepatol* 23(2):57-61 (2000); and Farrell, *Semin Liver Dis* 22(2):185-194 (2002)). A few of these serious cases included fatalities. A few cases of liver cancer have also been reported. Additionally, studies in mice and rats have shown that tamoxifen significantly alters the activities of liver enzymes

and can induce hepatic carcinomas (Caballero *et al.*, *Int J Biochem Cell Biol* 33(7):681-690 (2001); Guzelian, *Semin Oncol* 24(1 Suppl 1):S1-105-121 (1997)).

[0072] Tetracycline is a broad spectrum antibiotic whose main mechanism of action is the inhibition of bacterial protein synthesis. Hepatic toxicity, principally steatosis, has been observed in patients receiving high doses of tetracycline. In rats and dogs, exposure to tetracycline has been shown to increase levels of total lipids and triglycerides in liver cells due to inhibition of mitochondrial lipid metabolism and beta-oxidation (Lewis *et al.*, *Am J Dig Dis* 12:429-438, (1967); Amacher *et al.*, *Fundam Appl Toxicol* 40(2):256-263 (1997).

[0073] Valproate (n-dipropylacetic acid, Depakene®) is routinely used to treat several types of epileptic seizures- absence seizures, myoclonic seizures and tonic-clonic seizures. Most other anti-epileptics are effective against only one type. Valproate acts on neurons to inhibit the sustained repetitive firing caused by depolarization of cortical or spinal cord neurons, and a prolonged recovery of inactivated voltage-activated Na<sup>+</sup> channels follows. The drug also acts by reducing the low-threshold Ca<sup>2+</sup> current and its multiple mechanisms contribute to its use in multiple types of seizures. Although valproate does not affect neuronal responses to GABA, it does increase the activity of the GABA synthetic enzyme, glutamic acid decarboxylase, and it inhibits enzymes that degrade GABA, GABA transaminase and succinic semialdehyde dehydrogenase (Goodman and Gilman's The Pharmacological Basis of Therapeutics, 9th Ed., Hardman *et al.*, eds., pp. 462, 476 and 477, McGraw-Hill, New York, 1996).

[0074] The most common side effects are gastrointestinal symptoms, including anorexia, nausea and vomiting. Effects on the CNS include sedation, ataxia and tremor. Rash, hair loss, increased appetite and teratogenic effects have also been observed (Briggs *et al.*, A Reference Guide to Fetal and Neonatal Risk. Drugs in Pregnancy and Lactation, 4th ed., p. 869, Williams & Wilkins, Baltimore, 1994). With respect to liver toxicity, valproate produces elevated levels of hepatic enzymes in about 40% of patients, which may be an asymptomatic condition, and elevated levels of hepatic lipids. Fulminant hepatitis, microvesicular steatosis (fatty degeneration), hepatocyte necrosis and hepatic failure can also result. It is believed that hepatotoxicity is caused by an accumulation of unsaturated metabolites of valproate, in particular 4-en-valproate, which is structurally similar to two known hepatotoxins, 4-en-pentanoate and methylenecyclopropylacetic acid (Eadie *et al.*, *Med Toxicol Adverse Drug Exp* 3(2):85-106 (1988)).

[0075] In a study on rats, microvesicular steatosis caused by valproate was found to be accompanied by myeloid bodies, lipid vacuoles and mitochondrial abnormalities (Kesterson *et al.*, *Hepatology* 4(6):1143-1152 (1984)). Experiments on cultured rat hepatocytes have shown that valproate produces a dose-dependent leakage of lactic acid dehydrogenase and increased amounts of acyl-CoA esters, compounds that interfere with the beta-oxidation of fatty acids (Vance *et al.*, *Epilepsia* 35(5):1016-1022 (1994)). Administration of valproate to rats has also been shown to cause enhanced excretion of dicarboxylic acids, a sign of impaired mitochondrial beta-oxidation. Other metabolic effects include hypoglycemia, hyperammonemia, decreased levels of beta-hydroxybutyrate and carnitine and decreased activities of acyl-CoA dehydrogenases, enzymes involved in fatty acid oxidation. mRNA levels of genes involved in fatty acid oxidation, however, such as the short-, medium- and long-chain acyl-CoA dehydrogenases, were found to have increased (Kibayashi *et al.*, *Pediatr Int* 41(1):52-60 (1999)).

[0076] Wy-14643, a tumor-inducing compound that acts in the liver, has been used to study the genetic profile of cells during the various stages of carcinogenic development, with a view toward developing strategies for detecting, diagnosing and treating cancers (Rockett *et al.*, *Toxicology* 144(1-3):13-29 (2000)). In contrast to other carcinogens, Wy-14643 does not mutate DNA directly. Instead, it acts on the peroxisome proliferator activated receptor-alpha (PPARalpha), as well as on other signaling pathways that regulate growth (Johnson *et al.*, *J Steroid Biochem Mol Biol* 77(1):59-71 (2001)). The effect is elevated and sustained cell replication, accompanied by a decrease in apoptosis (Rusyn *et al.*, *Carcinogenesis* 21(12):2141-2145 (2000)). These authors (Rusyn *et al.*) noted an increase in the expression of enzymes that repair DNA by base excision, but no increased expression of enzymes that do not repair oxidative damage to DNA. In a study on rodents, Johnson *et al.* noted that Wy-14643 inhibited liver-X-receptor-mediated transcription in a dose-dependent manner, as well as *de novo* sterol synthesis.

[0077] In experiments with mouse liver cells (Peters *et al.*, *Carcinogenesis* 19(11):1989-1994 (1998)), exposure to Wy-14643 produced increased levels of acyl CoA oxidase and proteins involved in cell proliferation: CDK-1, 2 and 4, PCNA and c-myc. Elevated levels may be caused by accelerated transcription that is mediated directly or indirectly by PPARalpha. It is likely that the carcinogenic properties of peroxisome proliferators are due to the PPARalpha-dependent changes in levels of cell cycle regulatory proteins.

[0078] Another study on rodents (Keller *et al.*, *Biochim Biophys Acta* 1102(2):237-244 (1992)) showed that Wy-14643 was capable of uncoupling oxidative phosphorylation in rat liver mitochondria. Rates of urea synthesis from ammonia and bile flow, two energy-dependent processes, were reduced, indicating that the energy supply for these processes was disrupted as a result of cellular exposure to the toxin. Wy-14643 has also been shown to activate nuclear factor kappaB, NADPH oxidase and superoxide production in Kupffer cells (Rusyn *et al.*, *Cancer Res* 60(17):4798-4803 (2000)). NADPH oxidase is known to induce mitogens, which cause proliferation of liver cells.

### **Toxicity Identification, Prediction and Modeling**

[0079] The genes and gene expression information, as well as the portfolios and subsets of the genes provided in Tables 1-5XX may be used to predict or identify at least one toxic effect, including the hepatotoxicity of a test or unknown compound. As used, herein, at least one toxic effect includes, but is not limited to, a detrimental change in the physiological status of a cell or organism. The response may be, but is not required to be, associated with a particular pathology, such as tissue necrosis. Accordingly, the toxic effect includes effects at the molecular and cellular level. Hepatotoxicity is an effect as used herein and includes, but is not limited to, genotoxic and non-genotoxic carcinogenesis, cholestasis, hepatitis, liver enlargement, inflammation, necrosis, necrosis with steatosis, peroxisome proliferation, steatosis, and steatosis with hepatitis. In addition, hepatotoxicity includes the effect of direct-acting agents (such as metformin, rosiglitazone and dexamethasone), which are pharmaceuticals that act in the liver, but are not considered toxic to the liver. Exposure to these agents results in altered gene expression profiles. As used herein, a gene expression profile comprises any quantitative representation of the expression of at least one mRNA species in a cell sample or population and includes profiles made by various methods such as differential display, PCR, hybridization analysis, etc.

[0080] In general, assays to predict the toxicity or hepatotoxicity of a test agent (or compound or multi-component composition) comprise the steps of exposing a cell population to the test compound, assaying or measuring the level of relative or absolute gene expression of one or more of the genes in Tables 5A-5XX and comparing the identified expression level(s) to the expression levels disclosed in the Tables and database(s) disclosed herein. Assays may include the measurement of the expression levels of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 50, 75, 100, 200, 300, 400, 500, 1000 or more genes from Tables 5A-5XX

to create multi-gene expression profiles. In some embodiments, all or substantially all of the genes of Tables 5A-5XX may be used to predict toxicity, etc. In other embodiments, the genes or subsets of the genes for each individual toxin model, for instance, the genes of Table 5A, may be used. An "adequate amount" of the data of Tables 5A-5XX refers to an amount of information that allows toxicity identification or prediction (typically 2 or more genes). "Substantially" or nearly all of the data in the tables refers to at least about 80% of the data for an individual model.

[0081] In the methods of the invention, the gene expression level for a gene or genes induced by the test agent, compound or compositions may be comparable to the levels found in the Tables or databases disclosed herein if the expression level varies within a factor of about 2, about 1.5 or about 1.0 fold. In some cases, the expression levels are comparable if the agent induces a change in the expression of a gene in the same direction (e.g., up or down) as a reference toxin. "Comparing" may comprise determining the relationship of the database information to the sample gene expression profile with or without application of an algorithm to the results, differences or similarities between the two.

[0082] The cell population that is exposed to the test agent, compound or composition may be exposed *in vitro* or *in vivo*. For instance, cultured or freshly isolated hepatocytes, in particular rat hepatocytes, may be exposed to the agent under standard laboratory and cell culture conditions. In another assay format, *in vivo* exposure may be accomplished by administration of the agent to a living animal, for instance a laboratory rat.

[0083] Procedures for designing and conducting toxicity tests in *in vitro* and *in vivo* systems are well known, and are described in many texts on the subject, such as *Loomis et al.*, Loomis's Essentials of Toxicology, 4th Ed., Academic Press, New York, 1996; Echobichon, The Basics of Toxicity Testing, CRC Press, Boca Raton, 1992; Frazier, editor, In Vitro Toxicity Testing, Marcel Dekker, New York, 1992; and the like.

[0084] In *in vitro* toxicity testing, two groups of test organisms are usually employed: One group serves as a control and the other group receives the test compound in a single dose (for acute toxicity tests) or a regimen of doses (for prolonged or chronic toxicity tests). Because, in some cases, the extraction of tissue as called for in the methods of the invention requires sacrificing the test animal, both the control group and the group receiving compound must be large enough to permit removal of animals for sampling tissues, if it is desired to observe the dynamics of gene expression through the duration of an experiment.

[0085] In setting up a toxicity study, extensive guidance is provided in the literature for selecting the appropriate test organism for the compound being tested, route of administration, dose ranges, and the like. Water or physiological saline (0.9% NaCl in water) is the solute of choice for the test compound since these solvents permit administration by a variety of routes. When this is not possible because of solubility limitations, vegetable oils such as corn oil or organic solvents such as propylene glycol may be used.

[0086] Regardless of the route of administration, the volume required to administer a given dose is limited by the size of the animal that is used. It is desirable to keep the volume of each dose uniform within and between groups of animals. When rats or mice are used, the volume administered by the oral route generally should not exceed about 0.005 ml per gram of animal. Even when aqueous or physiological saline solutions are used for parenteral injection the volumes that are tolerated are limited, although such solutions are ordinarily thought of as being innocuous. The intravenous LD<sub>50</sub> of distilled water in the mouse is approximately 0.044 ml per gram and that of isotonic saline is 0.068 ml per gram of mouse. In some instances, the route of administration to the test animal should be the same as, or as similar as possible to, the route of administration of the compound to man for therapeutic purposes.

[0087] When a compound is to be administered by inhalation, special techniques for generating test atmospheres are necessary. The methods usually involve aerosolization or nebulization of fluids containing the compound. If the agent to be tested is a fluid that has an appreciable vapor pressure, it may be administered by passing air through the solution under controlled temperature conditions. Under these conditions, dose is estimated from the volume of air inhaled per unit time, the temperature of the solution, and the vapor pressure of the agent involved. Gases are metered from reservoirs. When particles of a solution are to be administered, unless the particle size is less than about 2  $\mu$ m the particles will not reach the terminal alveolar sacs in the lungs. A variety of apparatuses and chambers are available to perform studies for detecting effects of irritant or other toxic endpoints when they are administered by inhalation. The preferred method of administering an agent to animals is via the oral route, either by intubation or by incorporating the agent in the feed.

[0088] When the agent is exposed to cells *in vitro* or in cell culture, the cell population to be exposed to the agent may be divided into two or more subpopulations, for instance, by dividing the population into two or more identical aliquots. In some preferred embodiments

of the methods of the invention, the cells to be exposed to the agent are derived from liver tissue. For instance, cultured or freshly isolated rat hepatocytes may be used.

[0089] The methods of the invention may be used generally to predict at least one toxic response, and, as described in the Examples, may be used to predict the likelihood that a compound or test agent will induce various specific liver pathologies, such as genotoxic and non-genotoxic carcinogenesis, cholestasis, direct action toxicity, hepatitis, liver enlargement, inflammation, necrosis, necrosis with steatosis, peroxisome proliferation, steatosis, steatosis with hepatitis, or other pathologies associated with at least one of the toxins herein described. The methods of the invention may also be used to determine the similarity of a toxic response to one or more individual compounds. In addition, the methods of the invention may be used to predict or elucidate the potential cellular pathways influenced, induced or modulated by the compound or test agent due to the similarity of the expression profile compared to the profile induced by a known toxin (see Tables 5A-5G, 5J, 5K, 5M-5S, 5U-5Y, 5AA-5EE, 5HH-5JJ, 5MM, 5OO, 5PP and 5SS-5XX). Further, the link between a specific liver pathology that is the result of exposure to a toxin and a specific gene expression profile allows for distinction of the genes in Tables 5A-5XX as markers of liver toxicity.

#### **Diagnostic Uses for the Toxicity Markers**

[0090] As described above, the genes and gene expression information or portfolios of the genes with their expression information as provided in Tables 5A-5XX may be used as diagnostic markers for the prediction or identification of the physiological state of tissue or cell sample that has been exposed to a compound or to identify or predict the toxic effects of a compound or agent. For instance, a tissue sample such as a sample of peripheral blood cells or some other easily obtainable tissue sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 5A-5XX may be compared to the expression levels found in tissues or cells exposed to the toxins described herein. These methods may result in the diagnosis of a physiological state in the cell or may be used to identify the potential toxicity of a compound, for instance a new or unknown compound or agent. The comparison of expression data, as well as available sequence or other information may be done by researcher or diagnostician or may be done with the aid of a computer and databases as described below.

[0091] In another format, the levels of a gene(s) of Tables 5A-5XX, its encoded protein(s), or any metabolite produced by the encoded protein may be monitored or detected in a sample,



such as a bodily tissue or fluid sample to identify or diagnose a physiological state of an organism. Such samples may include any tissue or fluid sample, including urine, blood and easily obtainable cells such as peripheral lymphocytes.

#### **Use of the Markers for Monitoring Toxicity Progression**

[0092] As described above, the genes and gene expression information provided in Tables 5A-5XX may also be used as markers for the monitoring of toxicity progression, such as that found after initial exposure to a drug, drug candidate, toxin, pollutant, etc. For instance, a tissue or cell sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 5A-5XX may be compared to the expression levels found in tissue or cells exposed to the hepatotoxins described herein. The comparison of the expression data, as well as available sequence or other information may be done by researcher or diagnostician or may be done with the aid of a computer and databases.

#### **Use of the Toxicity Markers for Drug Screening**

[0093] According to the present invention, the genes identified in Tables 5A-5XX may be used as markers or drug targets to evaluate the effects of a candidate drug, chemical compound or other agent on a cell or tissue sample. The genes may also be used as drug targets to screen for agents that modulate their expression and/or activity. In various formats, a candidate drug or agent can be screened for the ability to simulate the transcription or expression of a given marker or markers or to down-regulate or counteract the transcription or expression of a marker or markers. According to the present invention, one can also compare the specificity of a drug's effects by looking at the number of markers which the drug induces and comparing them. More specific drugs will have less transcriptional targets. Similar sets of markers identified for two drugs may indicate a similarity of effects. As used herein, an agent is said to modulate the expression of a nucleic acid of the invention if it is capable of up- or down-regulating expression of the nucleic acid in a cell.

[0094] Assays to monitor the expression of a marker or markers as defined in Tables 5A-5XX may utilize any available means of monitoring for changes in the expression level of the nucleic acids of the invention.

[0095] In one assay format, microarrays containing probes to one, two or more genes from Tables 5A-5XX may be used to directly monitor or detect changes in gene expression in the treated or exposed cell. Cell lines, tissues or other samples are first exposed to a test agent and in some instances, a known toxin, and the detected expression levels of one or more, or

preferably 2 or more of the genes of Tables 5A-5XX are compared to the expression levels of those same genes exposed to a known toxin alone. Compounds that modulate the expression patterns of the known toxin(s) would be expected to modulate potential toxic physiological effects *in vivo*. The genes in Tables 5A-5XX are particularly appropriate marks in these assays as they are differentially expressed in cells upon exposure to a known hepatotoxin.

[0096] In another format, cell lines that contain reporter gene fusions between the open reading frame and/or the transcriptional regulatory regions of a gene in Tables 5A-5XX and any assayable fusion partner may be prepared. Numerous assayable fusion partners are known and readily available including the firefly luciferase gene and the gene encoding chloramphenicol acetyltransferase (Alam *et al.*, *Anal Biochem* 188:245-254 (1990)). Cell lines containing the reporter gene fusions are then exposed to the agent to be tested under appropriate conditions and time. Differential expression of the reporter gene between samples exposed to the agent and control samples identifies agents which modulate the expression of the nucleic acid.

[0097] Additional assay formats may be used to monitor the ability of the agent to modulate the expression of a gene identified in Tables 5A-5XX. For instance, as described above, mRNA expression may be monitored directly by hybridization of probes to the nucleic acids of the invention. Cell lines are exposed to the agent to be tested under appropriate conditions and time and total RNA or mRNA is isolated by standard procedures such those disclosed in Sambrook *et al.* (Molecular Cloning: A Laboratory Manual, 3d Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, 2001).

[0098] In another assay format, cells or cell lines are first identified which express the gene products of the invention physiologically. Cell and/or cell lines so identified would be expected to comprise the necessary cellular machinery such that the fidelity of modulation of the transcriptional apparatus is maintained with regard to exogenous contact of agent with appropriate surface transduction mechanisms and/or the cytosolic cascades. Further, such cells or cell lines may be transduced or transfected with an expression vehicle (e.g., a plasmid or viral vector) construct comprising an operable non-translated 5'-promoter containing end of the structural gene encoding the gene products of Tables 5A-5XX fused to one or more antigenic fragments or other detectable markers, which are peculiar to the instant gene products, wherein said fragments are under the transcriptional control of said promoter and are expressed as polypeptides whose molecular weight can be distinguished from the

naturally occurring polypeptides or may further comprise an immunologically distinct or other detectable tag. Such a process is well known in the art (see Sambrook *et al.*, *supra*).

[0099] Cells or cell lines transduced or transfected as outlined above are then contacted with agents under appropriate conditions; for example, the agent comprises a pharmaceutically acceptable excipient and is contacted with cells comprised in an aqueous physiological buffer such as phosphate buffered saline (PBS) at physiological pH, Eagles balanced salt solution (BSS) at physiological pH, PBS or BSS comprising serum or conditioned media comprising PBS or BSS and/or serum incubated at 37°C. Said conditions may be modulated as deemed necessary by one of skill in the art. Subsequent to contacting the cells with the agent, said cells are disrupted and the polypeptides of the lysate are fractionated such that a polypeptide fraction is pooled and contacted with an antibody to be further processed by immunological assay (*e.g.*, ELISA, immunoprecipitation or Western blot). The pool of proteins isolated from the agent-contacted sample is then compared with the control samples (no exposure and exposure to a known toxin) where only the excipient is contacted with the cells and an increase or decrease in the immunologically generated signal from the agent-contacted sample compared to the control is used to distinguish the effectiveness and/or toxic effects of the agent.

[00100] Another embodiment of the present invention provides methods for identifying agents that modulate at least one activity of a protein(s) encoded by the genes in Tables 5A-5XX. Such methods or assays may utilize any means of monitoring or detecting the desired activity.

[00101] In one format, the relative amounts of a protein (Tables 5A-5XX) between a cell population that has been exposed to the agent to be tested compared to an un-exposed control cell population and a cell population exposed to a known toxin may be assayed. In this format, probes such as specific antibodies are used to monitor the differential expression of the protein in the different cell populations. Cell lines or populations are exposed to the agent to be tested under appropriate conditions and time. Cellular lysates may be prepared from the exposed cell line or population and a control, unexposed cell line or population. The cellular lysates are then analyzed with the probe, such as a specific antibody.

[00102] Agents that are assayed in the above methods can be randomly selected or rationally selected or designed. As used herein, an agent is said to be randomly selected when the agent is chosen randomly without considering the specific sequences involved in the association of the a protein of the invention alone or with its associated substrates, binding partners, etc. An

example of randomly selected agents is the use a chemical library or a peptide combinatorial library, or a growth broth of an organism.

[00103] As used herein, an agent is said to be rationally selected or designed when the agent is chosen on a nonrandom basis which takes into account the sequence of the target site and/or its conformation in connection with the agent's action. Agents can be rationally selected or rationally designed by utilizing the peptide sequences that make up these sites. For example, a rationally selected peptide agent can be a peptide whose amino acid sequence is identical to or a derivative of any functional consensus site.

[00104] The agents of the present invention can be, as examples, peptides, small molecules, vitamin derivatives, as well as carbohydrates. Dominant negative proteins, DNAs encoding these proteins, antibodies to these proteins, peptide fragments of these proteins or mimics of these proteins may be introduced into cells to affect function. "Mimic" used herein refers to the modification of a region or several regions of a peptide molecule to provide a structure chemically different from the parent peptide but topographically and functionally similar to the parent peptide (see G.A. Grant in: Molecular Biology and Biotechnology, Meyers, ed., pp. 659-664, VCH Publishers, New York, 1995). A skilled artisan can readily recognize that there is no limit as to the structural nature of the agents of the present invention.

#### **Nucleic Acid Assay Formats**

[00105] The genes identified as being differentially expressed upon exposure to a known hepatotoxin (Tables 5A-5XX) may be used in a variety of nucleic acid detection assays to detect or quantitate the expression level of a gene or multiple genes in a given sample. The genes described in Tables 5A-5XX may also be used in combination with one or more additional genes whose differential expression is associate with toxicity in a cell or tissue. In preferred embodiments, the genes in Tables 5A-5XX may be combined with one or more of the genes described in prior and related applications 60/353,171; 60/363,534; 60/371,135; 60/371,134; 60/370,248; 60/371,150; 60/371,413; 60/373,601; 60/374,139; 60/394,253; 60/378,652; 60/373,602; 60/378,653; 60/378,665; 60/378,370; 60/394,230; 60/407,688; 09/917,800; 10/060,087; PCT/US03/\_\_\_\_\_, entitled "Molecular Hepatotoxicology Modeling," filed January 31, 2003; and PCT/US01/23872, all of which are incorporated by reference on page 1 of this application.

[00106] Any assay format to detect gene expression may be used. For example, traditional Northern blotting, dot or slot blot, nuclease protection, primer directed amplification, RT-PCR, semi- or quantitative PCR, branched-chain DNA and differential display methods may

be used for detecting gene expression levels. Those methods are useful for some embodiments of the invention. In cases where smaller numbers of genes are detected, amplification based assays may be most efficient. Methods and assays of the invention, however, may be most efficiently designed with hybridization-based methods for detecting the expression of a large number of genes.

[00107] Any hybridization assay format may be used, including solution-based and solid support-based assay formats. Solid supports containing oligonucleotide probes for differentially expressed genes of the invention can be filters, polyvinyl chloride dishes, particles, beads, microparticles or silicon or glass based chips, etc. Such chips, wafers and hybridization methods are widely available, for example, those disclosed by Beattie (WO 95/11755).

[00108] Any solid surface to which oligonucleotides can be bound, either directly or indirectly, either covalently or non-covalently, can be used. A preferred solid support is a high density array or DNA chip. These contain a particular oligonucleotide probe in a predetermined location on the array. Each predetermined location may contain more than one molecule of the probe, but each molecule within the predetermined location has an identical sequence. Such predetermined locations are termed features. There may be, for example, from 2, 10, 100, 1000 to 10,000, 100,000 or 400,000 or more of such features on a single solid support. The solid support, or the area within which the probes are attached may be on the order of about a square centimeter. Probes corresponding to the genes of Tables 5A-5XX or from the related applications described above may be attached to single or multiple solid support structures, *e.g.*, the probes may be attached to a single chip or to multiple chips to comprise a chip set.

[00109] Oligonucleotide probe arrays for expression monitoring can be made and used according to any techniques known in the art (see for example, Lockhart et al., *Nat Biotechnol* 14:1675-1680 (1996); McGall et al., *Proc Nat Acad Sci USA* 93:13555-13460 (1996)). Such probe arrays may contain at least two or more oligonucleotides that are complementary to or hybridize to two or more of the genes described in Tables 5A-5XX. For instance, such arrays may contain oligonucleotides that are complementary or hybridize to at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 50, 70, 100 or more the genes described herein. Preferred arrays contain all or nearly all of the genes listed in Tables 5A-5XX, or individually, the gene sets of Tables 5A-5XX. In a preferred embodiment, arrays are

constructed that contain oligonucleotides to detect all or nearly all of the genes in any one of or all of Tables 5A-5XX on a single solid support substrate, such as a chip.

[00110] The sequences of the expression marker genes of Tables 5A-5XX are in the public databases. Table 1 provides the GenBank Accession Number, SEQ ID NO: and GLGC ID No. (Gene Logic reference no.) for each of the sequences (see [www.ncbi.nlm.nih.gov/](http://www.ncbi.nlm.nih.gov/)), while Table 2 provides identification information for the human homologues of the genes of Tables 1 and 5A-5XX. Table 3 identifies the metabolic pathways in which the genes of Tables 1 and 5A-5XX are believed to function. Table 4 defines the model codes used in Tables 1, 2, 3 and 5A-5XX. The sequences of the genes in GenBank are expressly herein incorporated by reference in their entirety as of the filing date of this application, as are related sequences, for instance, sequences from the same gene of different lengths, variant sequences, polymorphic sequences, genomic sequences of the genes and related sequences from different species, including the human counterparts, where appropriate. These sequences may be used in the methods of the invention or may be used to produce the probes and arrays of the invention. In some embodiments, the genes in Tables 5A-5XX that correspond to the genes or fragments previously associated with a toxic response may be excluded from the Tables.

[00111] As described above, in addition to the sequences of the GenBank Accession Nos. and GLGC ID Nos. disclosed in the Tables 5A-5XX, sequences such as naturally occurring variant or polymorphic sequences may be used in the methods and compositions of the invention. For instance, expression levels of various allelic or homologous forms of a gene disclosed in the Tables 5A-5XX may be assayed. Any and all nucleotide variations that do not alter the functional activity of a gene listed in the Tables 5A-5XX, including all naturally occurring allelic variants of the genes herein disclosed, may be used in the methods and to make the compositions (*e.g.*, arrays) of the invention.

[00112] Probes based on the sequences of the genes described above may be prepared by any commonly available method. Oligonucleotide probes for screening or assaying a tissue or cell sample are preferably of sufficient length to specifically hybridize only to appropriate, complementary genes or transcripts. Typically the oligonucleotide probes will be at least about 10, 12, 14, 16, 18, 20 or 25 nucleotides in length. In some cases, longer probes of at least 30, 40, or 50 nucleotides will be desirable.

[00113] As used herein, oligonucleotide sequences that are complementary to one or more of the genes described in Tables 5A-5XX refer to oligonucleotides that are capable of hybridizing under stringent conditions to at least part of the nucleotide sequences of said

genes. Such hybridizable oligonucleotides will typically exhibit at least about 75% sequence identity at the nucleotide level to said genes, preferably about 80% or 85% sequence identity or more preferably about 90% or 95% or more sequence identity to said genes.

[00114] "Bind(s) substantially" refers to complementary hybridization between a probe nucleic acid and a target nucleic acid and embraces minor mismatches that can be accommodated by reducing the stringency of the hybridization media to achieve the desired detection of the target polynucleotide sequence.

[00115] The terms "background" or "background signal intensity" refer to hybridization signals resulting from non-specific binding, or other interactions, between the labeled target nucleic acids and components of the oligonucleotide array (*e.g.*, the oligonucleotide probes, control probes, the array substrate, etc.). Background signals may also be produced by intrinsic fluorescence of the array components themselves. A single background signal can be calculated for the entire array, or a different background signal may be calculated for each target nucleic acid. In a preferred embodiment, background is calculated as the average hybridization signal intensity for the lowest 5% to 10% of the probes in the array, or, where a different background signal is calculated for each target gene, for the lowest 5% to 10% of the probes for each gene. Of course, one of skill in the art will appreciate that where the probes to a particular gene hybridize well and thus appear to be specifically binding to a target sequence, they should not be used in a background signal calculation. Alternatively, background may be calculated as the average hybridization signal intensity produced by hybridization to probes that are not complementary to any sequence found in the sample (*e.g.* probes directed to nucleic acids of the opposite sense or to genes not found in the sample such as bacterial genes where the sample is mammalian nucleic acids). Background can also be calculated as the average signal intensity produced by regions of the array that lack any probes at all.

[00116] The phrase "hybridizing specifically to" refers to the binding, duplexing, or hybridizing of a molecule substantially to or only to a particular nucleotide sequence or sequences under stringent conditions when that sequence is present in a complex mixture (*e.g.*, total cellular) DNA or RNA.

[00117] Assays and methods of the invention may utilize available formats to simultaneously screen at least about 100, preferably about 1000, more preferably about 10,000 and most preferably about 1,000,000 different nucleic acid hybridizations.

[00118] As used herein a "probe" is defined as a nucleic acid, capable of binding to a target nucleic acid of complementary sequence through one or more types of chemical bonds, usually through complementary base pairing, usually through hydrogen bond formation. As used herein, a probe may include natural (*i.e.*, A, G, U, C, or T) or modified bases (7-deazaguanosine, inosine, *etc.*). In addition, the bases in probes may be joined by a linkage other than a phosphodiester bond, so long as it does not interfere with hybridization. Thus, probes may be peptide nucleic acids in which the constituent bases are joined by peptide bonds rather than phosphodiester linkages.

[00119] The term "perfect match probe" refers to a probe that has a sequence that is perfectly complementary to a particular target sequence. The test probe is typically perfectly complementary to a portion (subsequence) of the target sequence. The perfect match (PM) probe can be a "test probe", a "normalization control" probe, an expression level control probe and the like. A perfect match control or perfect match probe is, however, distinguished from a "mismatch control" or "mismatch probe."

[00120] The terms "mismatch control" or "mismatch probe" refer to a probe whose sequence is deliberately selected not to be perfectly complementary to a particular target sequence. For each mismatch (MM) control in a high-density array there typically exists a corresponding perfect match (PM) probe that is perfectly complementary to the same particular target sequence. The mismatch may comprise one or more bases.

[00121] While the mismatch(s) may be located anywhere in the mismatch probe, terminal mismatches are less desirable as a terminal mismatch is less likely to prevent hybridization of the target sequence. In a particularly preferred embodiment, the mismatch is located at or near the center of the probe such that the mismatch is most likely to destabilize the duplex with the target sequence under the test hybridization conditions.

[00122] The term "stringent conditions" refers to conditions under which a probe will hybridize to its target subsequence, but with only insubstantial hybridization to other sequences or to other sequences such that the difference may be identified. Stringent conditions are sequence-dependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. Generally, stringent conditions are selected to be about 5°C lower than the thermal melting point ( $T_m$ ) for the specific sequence at a defined ionic strength and pH.

[00123] Typically, stringent conditions will be those in which the salt concentration is at least about 0.01 to 1.0 M  $\text{Na}^+$  ion concentration (or other salts) at pH 7.0 to 8.3 and the



temperature is at least about 30°C for short probes (*e.g.*, 10 to 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide.

[00124] The “percentage of sequence identity” or “sequence identity” is determined by comparing two optimally aligned sequences or subsequences over a comparison window or span, wherein the portion of the polynucleotide sequence in the comparison window may optionally comprise additions or deletions (*i.e.*, gaps) as compared to the reference sequence (which does not comprise additions or deletions) for optimal alignment of the two sequences. The percentage is calculated by determining the number of positions at which the identical submit (*e.g.* nucleic acid base or amino acid residue) occurs in both sequences to yield the number of matched positions, dividing the number of matched positions by the total number of positions in the window of comparison and multiplying the result by 100 to yield the percentage of sequence identity. Percentage sequence identity when calculated using the programs GAP or BESTFIT (see below) is calculated using default gap weights.

#### **Probe design**

[00125] One of skill in the art will appreciate that an enormous number of array designs are suitable for the practice of this invention. The high density array will typically include a number of test probes that specifically hybridize to the sequences of interest. Probes may be produced from any region of the genes identified in the Tables and the attached representative sequence listing. In instances where the gene reference in the Tables is an EST, probes may be designed from that sequence or from other regions of the corresponding full-length transcript that may be available in any of the sequence databases, such as those herein described. See WO 99/32660 for methods of producing probes for a given gene or genes. In addition, any available software may be used to produce specific probe sequences, including, for instance, software available from Molecular Biology Insights, Olympus Optical Co. and Biosoft International. In a preferred embodiment, the array will also include one or more control probes.

[00126] High density array chips of the invention include “test probes.” Test probes may be oligonucleotides that range from about 5 to about 500, or about 7 to about 50 nucleotides, more preferably from about 10 to about 40 nucleotides and most preferably from about 15 to about 35 nucleotides in length. In other particularly preferred embodiments, the probes are 20 or 25 nucleotides in length. In another preferred embodiment, test probes are double or single strand DNA sequences. DNA sequences are isolated or cloned from natural sources or amplified from natural sources using native nucleic acid as templates. These probes have

sequences complementary to particular subsequences of the genes whose expression they are designed to detect. Thus, the test probes are capable of specifically hybridizing to the target nucleic acid they are to detect.

[00127] In addition to test probes that bind the target nucleic acid(s) of interest, the high density array can contain a number of control probes. The control probes may fall into three categories referred to herein as 1) normalization controls; 2) expression level controls; and 3) mismatch controls.

[00128] Normalization controls are oligonucleotide or other nucleic acid probes that are complementary to labeled reference oligonucleotides or other nucleic acid sequences that are added to the nucleic acid sample to be screened. The signals obtained from the normalization controls after hybridization provide a control for variations in hybridization conditions, label intensity, "reading" efficiency and other factors that may cause the signal of a perfect hybridization to vary between arrays. In a preferred embodiment, signals (*e.g.*, fluorescence intensity) read from all other probes in the array are divided by the signal (*e.g.*, fluorescence intensity) from the control probes thereby normalizing the measurements.

[00129] Virtually any probe may serve as a normalization control. However, it is recognized that hybridization efficiency varies with base composition and probe length. Preferred normalization probes are selected to reflect the average length of the other probes present in the array, however, they can be selected to cover a range of lengths. The normalization control(s) can also be selected to reflect the (average) base composition of the other probes in the array, however in a preferred embodiment, only one or a few probes are used and they are selected such that they hybridize well (*i.e.*, no secondary structure) and do not match any target-specific probes.

[00130] Expression level controls are probes that hybridize specifically with constitutively expressed genes in the biological sample. Virtually any constitutively expressed gene provides a suitable target for expression level controls. Typically expression level control probes have sequences complementary to subsequences of constitutively expressed "housekeeping genes" including, but not limited to the  $\beta$ -actin gene, the glyceraldehyde-3-phosphate dehydrogenase (GADPH) gene, the transferrin receptor gene and the like.

[00131] Mismatch controls may also be provided for the probes to the target genes, for expression level controls or for normalization controls. Mismatch controls are oligonucleotide probes or other nucleic acid probes identical to their corresponding test or control probes except for the presence of one or more mismatched bases. A mismatched

base is a base selected so that it is not complementary to the corresponding base in the target sequence to which the probe would otherwise specifically hybridize. One or more mismatches are selected such that under appropriate hybridization conditions (*e.g.*, stringent conditions) the test or control probe would be expected to hybridize with its target sequence, but the mismatch probe would not hybridize (or would hybridize to a significantly lesser extent). Preferred mismatch probes contain a central mismatch. Thus, for example, where a probe is a 20 mer, a corresponding mismatch probe will have the identical sequence except for a single base mismatch (*e.g.*, substituting a G, a C or a T for an A) at any of positions 6 through 14 (the central mismatch).

[00132] Mismatch probes thus provide a control for non-specific binding or cross hybridization to a nucleic acid in the sample other than the target to which the probe is directed. For example, if the target is present the perfect match probes should be consistently brighter than the mismatch probes. In addition, if all central mismatches are present, the mismatch probes can be used to detect a mutation, for instance, a mutation of a gene in the accompanying Tables 5A-5XX. The difference in intensity between the perfect match and the mismatch probe provides a good measure of the concentration of the hybridized material.

#### Nucleic Acid Samples

[00133] Cell or tissue samples may be exposed to the test agent *in vitro* or *in vivo*. When cultured cells or tissues are used, appropriate mammalian liver extracts may also be added with the test agent to evaluate agents that may require biotransformation to exhibit toxicity. In a preferred format, primary isolates of animal or human hepatocytes which already express the appropriate complement of drug-metabolizing enzymes may be exposed to the test agent without the addition of mammalian liver extracts.

[00134] The genes which are assayed according to the present invention are typically in the form of mRNA or reverse transcribed mRNA. The genes may be cloned or not. The genes may be amplified or not. The cloning and/or amplification do not appear to bias the representation of genes within a population. In some assays, it may be preferable, however, to use polyA<sup>+</sup> RNA as a source, as it can be used with less processing steps.

[00135] As is apparent to one of ordinary skill in the art, nucleic acid samples used in the methods and assays of the invention may be prepared by any available method or process. Methods of isolating total mRNA are well known to those of skill in the art. For example, methods of isolation and purification of nucleic acids are described in detail in Chapter 3 of Laboratory Techniques in Biochemistry and Molecular Biology, Vol. 24, Hybridization With

Nucleic Acid Probes: Theory and Nucleic Acid Probes, P. Tijssen, Ed., Elsevier Press, New York, 1993. Such samples include RNA samples, but also include cDNA synthesized from a mRNA sample isolated from a cell or tissue of interest. Such samples also include DNA amplified from the cDNA, and RNA transcribed from the amplified DNA. One of skill in the art would appreciate that it is desirable to inhibit or destroy RNase present in homogenates before homogenates are used.

[00136] Biological samples may be of any biological tissue or fluid or cells from any organism as well as cells raised *in vitro*, such as cell lines and tissue culture cells. Frequently the sample will be a tissue or cell sample that has been exposed to a compound, agent, drug, pharmaceutical composition, potential environmental pollutant or other composition. In some formats, the sample will be a "clinical sample" which is a sample derived from a patient. Typical clinical samples include, but are not limited to, sputum, blood, blood-cells (e.g., white cells), tissue or fine needle biopsy samples, urine, peritoneal fluid, and pleural fluid, or cells therefrom.

[00137] Biological samples may also include sections of tissues, such as frozen sections or formalin fixed sections taken for histological purposes.

#### **Forming High Density Arrays**

[00138] Methods of forming high density arrays of oligonucleotides with a minimal number of synthetic steps are known. The oligonucleotide analogue array can be synthesized on a single or on multiple solid substrates by a variety of methods, including, but not limited to, light-directed chemical coupling, and mechanically directed coupling (see Pirrung, U.S. Patent No. 5,143,854).

[00139] In brief, the light-directed combinatorial synthesis of oligonucleotide arrays on a glass surface proceeds using automated phosphoramidite chemistry and chip masking techniques. In one specific implementation, a glass surface is derivatized with a silane reagent containing a functional group, e.g., a hydroxyl or amine group blocked by a photolabile protecting group. Photolysis through a photolithographic mask is used selectively to expose functional groups which are then ready to react with incoming 5' photoprotected nucleoside phosphoramidites. The phosphoramidites react only with those sites which are illuminated (and thus exposed by removal of the photolabile blocking group). Thus, the phosphoramidites only add to those areas selectively exposed from the preceding step. These steps are repeated until the desired array of sequences have been synthesized on the solid surface. Combinatorial synthesis of different oligonucleotide analogues at different locations

on the array is determined by the pattern of illumination during synthesis and the order of addition of coupling reagents.

[00140] In addition to the foregoing, additional methods which can be used to generate an array of oligonucleotides on a single substrate are described in PCT Publication Nos. WO 93/09668 and WO 01/23614. High density nucleic acid arrays can also be fabricated by depositing pre-made or natural nucleic acids in predetermined positions. Synthesized or natural nucleic acids are deposited on specific locations of a substrate by light directed targeting and oligonucleotide directed targeting. Another embodiment uses a dispenser that moves from region to region to deposit nucleic acids in specific spots.

### Hybridization

[00141] Nucleic acid hybridization simply involves contacting a probe and target nucleic acid under conditions where the probe and its complementary target can form stable hybrid duplexes through complementary base pairing. See WO 99/32660. The nucleic acids that do not form hybrid duplexes are then washed away leaving the hybridized nucleic acids to be detected, typically through detection of an attached detectable label. It is generally recognized that nucleic acids are denatured by increasing the temperature or decreasing the salt concentration of the buffer containing the nucleic acids. Under low stringency conditions (*e.g.*, low temperature and/or high salt) hybrid duplexes (*e.g.*, DNA:DNA, RNA:RNA, or RNA:DNA) will form even where the annealed sequences are not perfectly complementary. Thus, specificity of hybridization is reduced at lower stringency. Conversely, at higher stringency (*e.g.*, higher temperature or lower salt) successful hybridization tolerates fewer mismatches. One of skill in the art will appreciate that hybridization conditions may be selected to provide any degree of stringency.

[00142] In a preferred embodiment, hybridization is performed at low stringency, in this case in 6X SSPET at 37°C (0.005% Triton X-100), to ensure hybridization and then subsequent washes are performed at higher stringency (*e.g.*, 1X SSPET at 37°C) to eliminate mismatched hybrid duplexes. Successive washes may be performed at increasingly higher stringency (*e.g.*, down to as low as 0.25 X SSPET at 37°C to 50°C) until a desired level of hybridization specificity is obtained. Stringency can also be increased by addition of agents such as formamide. Hybridization specificity may be evaluated by comparison of hybridization to the test probes with hybridization to the various controls that can be present (*e.g.*, expression level control, normalization control, mismatch controls, etc.).

[00143] In general, there is a tradeoff between hybridization specificity (stringency) and signal intensity. Thus, in a preferred embodiment, the wash is performed at the highest stringency that produces consistent results and that provides a signal intensity greater than approximately 10% of the background intensity. Thus, in a preferred embodiment, the hybridized array may be washed at successively higher stringency solutions and read between each wash. Analysis of the data sets thus produced will reveal a wash stringency above which the hybridization pattern is not appreciably altered and which provides adequate signal for the particular oligonucleotide probes of interest.

### Signal Detection

[00144] The hybridized nucleic acids are typically detected by detecting one or more labels attached to the sample nucleic acids. The labels may be incorporated by any of a number of means well known to those of skill in the art. See WO 99/32660.

### Databases

[00145] The present invention includes relational databases containing sequence information, for instance, for the genes of Tables 5A-5XX, as well as gene expression information from tissue or cells exposed to various standard toxins, such as those herein described (see Tables 5A-5XX). Databases may also contain information associated with a given sequence or tissue sample such as descriptive information about the gene associated with the sequence information (see Tables 1, 2 and 3), or descriptive information concerning the clinical status of the tissue sample, or the animal from which the sample was derived. The database may be designed to include different parts, for instance a sequence database and a gene expression database. Methods for the configuration and construction of such databases and computer-readable media to which such databases are saved are widely available, for instance, see U.S. Patent No. 5,953,727, which is herein incorporated by reference in its entirety.

[00146] The databases of the invention may be linked to an outside or external database such as GenBank ([www.ncbi.nlm.nih.gov/entrez/index.html](http://www.ncbi.nlm.nih.gov/entrez/index.html)); KEGG ([www.genome.ad.jp/kegg](http://www.genome.ad.jp/kegg)); SPAD ([www.grt.kyushu-u.ac.jp/spad/index.html](http://www.grt.kyushu-u.ac.jp/spad/index.html)); HUGO ([www.gene.ucl.ac.uk/hugo](http://www.gene.ucl.ac.uk/hugo)); Swiss-Prot ([www.expasy.ch/sprot](http://www.expasy.ch/sprot)); Prosite ([www.expasy.ch/tools/scnpsit1.html](http://www.expasy.ch/tools/scnpsit1.html)); OMIM ([www.ncbi.nlm.nih.gov/omim](http://www.ncbi.nlm.nih.gov/omim)); LocusLink ([www.ncbi.nlm.nih.gov/LocusLink/](http://www.ncbi.nlm.nih.gov/LocusLink/)); RefSeq ([www.ncbi.nlm.nih.gov/LocusLink/refseq.html](http://www.ncbi.nlm.nih.gov/LocusLink/refseq.html)) and GDB ([www.gdb.org](http://www.gdb.org)). In a preferred embodiment, as described in Tables 1-3, the external database is GenBank and the associated

databases maintained by the National Center for Biotechnology Information (NCBI) ([www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov)).

[00147] Any appropriate computer platform, user interface, etc. may be used to perform the necessary comparisons between sequence information, gene expression information and any other information in the database or information provided as an input. For example, a large number of computer workstations are available from a variety of manufacturers, such as those available from Silicon Graphics. Client/server environments, database servers and networks are also widely available and appropriate platforms for the databases of the invention.

[00148] The databases of the invention may be used to produce, among other things, electronic Northern blots that allow the user to determine the cell type or tissue in which a given gene is expressed and to allow determination of the abundance or expression level of a given gene in a particular tissue or cell.

[00149] The databases of the invention may also be used to present information identifying the expression level in a tissue or cell of a set of genes comprising one or more of the genes in Tables 5A-5XX, comprising the step of comparing the expression level of at least one gene in Tables 5A-5XX in a cell or tissue exposed to a test agent to the level of expression of the gene in the database. Such methods may be used to predict the toxic potential of a given compound by comparing the level of expression of a gene or genes in Tables 5A-5XX from a tissue or cell sample exposed to the test agent to the expression levels found in a control tissue or cell samples exposed to a standard toxin or hepatotoxin such as those herein described. Such methods may also be used in the drug or agent screening assays as described herein.

### Kits

[00150] The invention further includes kits combining, in different combinations, high-density oligonucleotide arrays, reagents for use with the arrays, protein reagents encoded by the genes of the Tables, signal detection and array-processing instruments, gene expression databases and analysis and database management software described above. The kits may be used, for example, to predict or model the toxic response of a test compound, to monitor the progression of hepatic disease states, to identify genes that show promise as new drug targets and to screen known and newly designed drugs as discussed above.

[00151] The databases packaged with the kits are a compilation of expression patterns from human or laboratory animal genes and gene fragments (corresponding to the genes of Tables

5A-5XX). In particular, the database software and packaged information that may contain the databases saved to a computer-readable medium include the expression results of Tables 5A-5XX that can be used to predict toxicity of a test agent by comparing the expression levels of the genes of Tables 5A-5XX induced by the test agent to the expression levels presented in Tables 5A-5XX. In another format, database and software information may be provided in a remote electronic format, such as a website, the address of which may be packaged in the kit.

[00152] The kits may be used in the pharmaceutical industry, where the need for early drug testing is strong due to the high costs associated with drug development, but where bioinformatics, in particular gene expression informatics, is still lacking. These kits will reduce the costs, time and risks associated with traditional new drug screening using cell cultures and laboratory animals. The results of large-scale drug screening of pre-grouped patient populations, pharmacogenomics testing, can also be applied to select drugs with greater efficacy and fewer side-effects. The kits may also be used by smaller biotechnology companies and research institutes who do not have the facilities for performing such large-scale testing themselves.

[00153] Databases and software designed for use with microarrays is discussed in Balaban *et al.*, U.S. Patent Nos. 6,229,911, a computer-implemented method for managing information, stored as indexed tables, collected from small or large numbers of microarrays, and 6,185,561, a computer-based method with data mining capability for collecting gene expression level data, adding additional attributes and reformatting the data to produce answers to various queries. Chee *et al.*, U.S. Patent No. 5,974,164, discloses a software-based method for identifying mutations in a nucleic acid sequence based on differences in probe fluorescence intensities between wild type and mutant sequences that hybridize to reference sequences.

[00154] Without further description, it is believed that one of ordinary skill in the art can, using the preceding description and the following illustrative examples, make and utilize the compounds of the present invention and practice the claimed methods. The following working examples therefore, specifically point out the preferred embodiments of the present invention, and are not to be construed as limiting in any way the remainder of the disclosure.

## EXAMPLES



**Example 1: Identification of Toxicity Markers in Rat Hepatocytes**

[00155] To evaluate their toxicity, the hepatotoxins alpha-naphthylisothiocyanate (ANIT), acetaminophen (APAP), AY-25329, carbon tetrachloride, clofibrate, diclofenac, 17 $\alpha$ -ethinylestradiol, hydrazine, indomethacin, lipopolysaccharide, lovastatin, methotrexate, tacrine, valproate and control compositions were administered to cultures of primary rat hepatocytes from male Sprague-Dawley rats at various time points using administration diluents, protocols and dosing regimes as previously described in the art and in the prior applications discussed above, as well as in Table 6. Laboratory protocols for the administration of the hepatotoxins amiodarone, carbamazepine, chlorpromazine, CI-1000, CPA, diflunisal, DMN, gemfibrozil, imipramine, phenobarbital, tamoxifen, tetracycline and Wy-14643 also appear in Table 6. Identification of toxicity markers was performed by microarray analysis and by the AlamarBlue® assay, a classical measure of cytotoxicity. The AlamarBlue® assay was performed in triplicate.

[00156] The source of the primary rat hepatocytes was Sprague Dawley Outbred CD® Rats (CRL:CD®[SD] IGS BR, Charles River Laboratories). Hepatocyte cultures were obtained in 24-well matrigel coated plates for the AlamarBlue® assay (175,000 cells/cm<sup>2</sup>) or in T-75cm<sup>2</sup> matrigel coated flasks for RNA isolation for microarray analysis (187,000 cells/cm<sup>2</sup>).

Primary rat hepatocytes were received the day after the cells were removed from the animals. After arrival, the cells were incubated overnight (~15hrs) before the toxin was added to the cultures. The vehicle used in the toxicity experiments was HIM culture medium (Hepatocyte Incubation Medium, In Vitro Technologies Cat. No. Z90009) containing 0.2% DMSO (Sigma Cat. No. D-5879). Toxin or vehicle was administered to hepatocyte cultures as follows. For each treatment, *i.e.*, vehicle alone, vehicle + toxin at low dose, or vehicle + toxin at high dose, cells were harvested after 3, 6 and 24-hour incubations with the toxin solution or with the vehicle.

[00157] The AlamarBlue® assay was performed as follows, using only the 24-hour time point samples.

1. Primary rat hepatocyte cultures were prepared as described above in a matrigel-coated plates at 175,000 cells/cm<sup>2</sup>.
2. The culture medium (HIM) was removed from each well and replaced with 500  $\mu$ l of fresh HIM following arrival of the cells, and the cells were incubated overnight (approximately 15hrs) at 37°C, 5% CO<sub>2</sub>.

3. The next day, the HIM was removed and 500  $\mu$ l of the medium containing either vehicle or a dose of toxin was added.
4. Lysis solution was used as a negative control. 450  $\mu$ l medium + 50  $\mu$ l 9% Triton X100 were added to each of 3 wells containing cells, for a final Triton concentration of 1%.
5. The cells in all wells were incubated for 24 hours at 37°C, 5% CO<sub>2</sub>.
6. HIM medium was removed, and a solution containing 500  $\mu$ l of fresh HIM medium + 50  $\mu$ l AlamarBlue® (BioSource International, Inc., Cat. No. DAL1100) was added to each well.
7. The cells were incubated at 37°C, 5% CO<sub>2</sub> for 2 hours.
8. 100  $\mu$ l medium was removed from each well of the 24-well plate and added to a well of a 96-well plate. The fluorescence was measured using 544 nm as the excitation and 590 nm as the emission on a Molecular Devices, SpectraMax Gemini, Softmax pro 2.6.1. Alternatively, two absorbance readings can be measured for the oxidized (600nm) and the reduced (570nm) form of AlamarBlue®. After obtaining absorbance readings, results were calculated according to the manufacturer's protocol provided in the product description.
9. The data were evaluated to determine whether or not the toxin reduced cell viability. If so, the dose of the toxin that reduced cell viability by ~ 10-20% was determined.

#### Collection of RNA from Rat Hepatocytes

[00158] More than 10<sup>7</sup> cells are typically prepared for each sample. RNA was collected at 3, 6, and 24 hours following addition of the toxin according to the following procedure.

[00159] The medium from the flasks was discarded, and the cells were washed once with 20 ml of warm (37°C) RPMI-1640 + 10mM HEPES medium (Life Technologies, Cat. No. 22400-089). 12 ml of Trizol (Life Technologies, Cat. No. 15596-018) was placed immediately into each T-75 flask. Each flask contained ~10-20 million cells. The contents of each flask were mixed vigorously for one minute with a vortex mixer and then aspirated up and down 5 times with a pipette. The contents of each flask (~12 ml each) was collected into a 50 ml conical polypropylene tissue culture tube (Falcon), snap frozen in liquid nitrogen and stored at  $\leq -86^{\circ}$  C.

[00160] Microarray sample preparation was conducted with minor modifications, following the protocols set forth in the Affymetrix GeneChip® Expression Analysis Manual. Frozen cells were ground to a powder using a Spex Certiprep 6800 Freezer Mill. Total RNA was

extracted with Trizol (GibcoBRL) utilizing the manufacturer's protocol. The total RNA yield for each sample was 200-500 µg per 300 mg cells. mRNA was isolated using the Oligotex mRNA Midi kit (Qiagen) followed by ethanol precipitation. Double stranded cDNA was generated from mRNA using the SuperScript Choice system (GibcoBRL). First strand cDNA synthesis was primed with a T7-(dT24) oligonucleotide. The cDNA was phenol-chloroform extracted and ethanol precipitated to a final concentration of 1 µg/ml. From 2 µg of cDNA, cRNA was synthesized using Ambion's T7 MegaScript in vitro Transcription Kit. [00161] To biotin label the cRNA, nucleotides Bio-11-CTP and Bio-16-UTP (Enzo Diagnostics) were added to the reaction. Following a 37°C incubation for six hours, impurities were removed from the labeled cRNA following the RNeasy Mini kit protocol (Qiagen). cRNA was fragmented (fragmentation buffer consisting of 200 mM Tris-acetate, pH 8.1, 500 mM KOAc, 150 mM MgOAc) for thirty-five minutes at 94°C. Following the Affymetrix protocol, 55 µg of fragmented cRNA was hybridized on the Affymetrix rat array set for twenty-four hours at 60 rpm in a 45°C hybridization oven. The chips were washed and stained with Streptavidin Phycoerythrin (SAPE) (Molecular Probes) in Affymetrix fluidics stations. To amplify staining, SAPE solution was added twice with an anti-streptavidin biotinylated antibody (Vector Laboratories) staining step in between. Hybridization to the probe arrays was detected by fluorometric scanning (Hewlett Packard Gene Array Scanner). Data was analyzed using Affymetrix GeneChip® version 3.0 and Expression Data Mining Tool (EDMT) software (version 1.0), S-Plus, and the GeneExpress® software system.

[00162] Differential expression of genes between the toxin-exposed and control samples corresponding to patterns indicative of toxicity was determined using the following criteria.

[00163] Table 1 discloses those genes that are differentially expressed upon exposure to the named toxins with their corresponding SEQ ID NOS., GenBank Accession or RefSeq ID Nos., GLGC ID Nos. (internal Gene Logic identification nos.), gene names and Unigene Sequence Cluster titles. The metabolic pathways in which the genes of Table 1 function are indicated in Table 3, and the corresponding human homologues are given in Table 2. The model codes, identified in Table 4, represent the various toxicity or liver pathology states associated with differential expression of each gene, as well as the individual toxin types associated with differential expression of each gene.

[00164] Tables 5A-5XX disclose the summary statistics for each of the comparisons performed. Each of these tables contains a set of predictive genes and creates a model for

predicting the hepatotoxicity of an unknown, *i.e.*, untested compound. Each gene is identified by its Gene Logic identification number and can be cross-referenced to a gene name and representative SEQ ID NO. in Table 1. For each comparison of gene expression levels between samples in the toxicity group ("Tox" samples, *i.e.*, samples affected by exposure to a specific toxin) and samples in the non-toxicity group ("Non-tox" samples, *i.e.*, samples not affected by exposure to that same specific toxin), the group mean for Tox samples is the mean signal intensity, as normalized for the various chip parameters that are being assayed. The Non-tox mean represents the mean signal intensity, as normalized for the various chip parameters that are being assayed, in samples other than those treated with the high dose of the specific toxin. These samples were treated with a low dose of the specific toxin, or with vehicle alone, or with a different toxin. Tox samples were obtained from treated cells processed at the timepoint(s) indicated in the tables, while Non-tox samples were obtained from control cells processed at all time points in the experiments. For individual genes, an increase in the Tox group mean compared to the Non-tox group mean indicates up-regulation upon exposure to a toxin. Conversely, a decrease in the Tox group mean compared to the Non-tox group mean indicates down-regulation.

[00165] The mean values are derived from Average Difference (AveDiff) values for a particular gene, averaged across the corresponding samples. Each individual Average Difference value is calculated by integrating the intensity information from multiple probe pairs that are tiled for a particular fragment. The normalization multiplies each expression intensity for a given experiment (chip) by a global scaling factor. The intent of this normalization is to make comparisons of individual genes between chips possible. The scaling factor is calculated as follows:

1. From all the unnormalized expression values in the experiment, delete the largest 2% and smallest 2% of the values. That is, if the experiment yields 10,000 expression values, order the values and delete the smallest 200 and the largest 200.
2. Compute the trimmed mean, which is equal to the mean of the remaining values.
3. Compute the scale factor  $SF = 100/(\text{trimmed mean})$

[00166] The value of 100 used here is the standard target value used. Some AveDiff values may be negative due to the general noise involved in nucleic acid hybridization experiments. Although many conclusions can be made corresponding to a negative value on the GeneChip platform, it is difficult to assess the meaning behind the negative value for individual fragments. Our observations show that, although negative values are observed at times

within the predictive gene set, these values reflect a real biological phenomenon that is highly reproducible across all the samples from which the measurement was taken. For this reason, those genes that exhibit a negative value are included in the predictive set. It should be noted that other platforms of gene expression measurement may be able to resolve the negative numbers for the corresponding genes. The predictive ability of each of those genes should extend across platforms, however. Each mean value is accompanied by the standard deviation for the mean.

[00167] The linear discriminant analysis score (discriminant score), as disclosed in the tables, measures the ability of each gene to predict whether or not a sample is toxic. The discriminant score is calculated by the following steps:

#### Calculation of a discriminant score

[00168] Let  $X_i$  represent the AveDiff values for a given gene across the Group 1 samples,  $i=1 \dots n$ .

[00169] Let  $Y_i$  represent the AveDiff values for a given gene across the Group 2 samples,  $i=1 \dots t$ .

[00170] The calculations proceed as follows:

[00171] Calculate mean and standard deviation for  $X_i$ 's and  $Y_i$ 's, and denote these by  $m_X$ ,  $m_Y$ ,  $s_X$ ,  $s_Y$ .

[00172] For all  $X_i$ 's and  $Y_i$ 's, evaluate the function  $f(z) = ((1/s_Y) * \exp(-.5 * ((z - m_Y)/s_Y)^2)) / (((1/s_Y) * \exp(-.5 * ((z - m_Y)/s_Y)^2)) + ((1/s_X) * \exp(-.5 * ((z - m_X)/s_X)^2)))$ .

[00173] The number of correct predictions, say  $P$ , is then the number of  $Y_i$ 's such that  $f(Y_i) > .5$  plus the number of  $X_i$ 's such that  $f(X_i) < .5$ .

[00174] The discriminant score is then  $P/(n+t)$ .

[00175] Linear discriminant analysis uses both the individual measurements of each gene and the calculated measurements of all combinations of genes to classify samples. For each gene, a weight is derived from the mean and standard deviation of the Tox and Non-tox sample groups. Every gene is multiplied by a weight and the sum of these values results in a collective discriminate score. This discriminant score is then compared against collective centroids of the Tox and Non-tox groups. These centroids are the average of all tox and nontox samples respectively. Therefore, each gene contributes to the overall prediction. This contribution is dependent on weights that are large positive or negative numbers if the relative distances between the Tox and Non-tox samples for that gene are large and small numbers if the relative distances are small. The discriminant score for each unknown sample

and centroid values can be used to calculate a probability between zero and one as to the group in which the unknown sample belongs.

### **Example 2: General Toxicity Modeling**

[00176] Samples were selected for grouping into Tox and Non-tox groups by examining each study individually with Principal Components Analysis (PCA) to determine which treatments had an observable response. Only sample groups where confidence of the tox-responding or non-tox-responding status (expression level affected by exposure to a specific toxin or expression level not affected by exposure to a specific toxin, respectively) was established were included in building a general toxicity prediction model.

[00177] Linear discriminant models were generated to describe Tox and Non-tox samples. The top discriminant genes and/or EST's were used to determine toxicity by calculating each gene's contribution with homo and heteroscedastic treatment of variance and inclusion or exclusion of mutual information between genes. Prediction of samples within the database exceeded 80% true positives with a false positive rate of less than 5%. It was determined that combinations of genes and/or EST's generally provided a better prediction than individual genes and that the more genes and/or EST used, the better the prediction. Although the preferred embodiment includes fifty or more genes, many pairings or larger combinations of genes and/or EST can work better than individual genes. All combinations of two or more genes from the selected list could be used to predict toxicity. These combinations could be selected by pairing in an agglomerate, divisive, or random approach. Further, as yet undetermined genes and/or EST's could be combined with individual or a set of genes and/or EST's described here to increase predictive ability. However, the genes and/or EST's described here would contribute most of the predictive ability to any such undetermined combinations.

[00178] Other variations on the above method can provide adequate predictive ability. These include selective inclusion of components via agglomerate, divisive, or random approaches or extraction of loading and combining them in agglomerate, divisive, or random approaches. Also the use of composite variables in logistic regression to determine classification of samples can also be accomplished with linear discriminate analysis, neural or Bayesian networks, or other forms of regression and classification based on categorical or continual dependent and independent variables.

**Example 3: Modeling Methods**

[00179] The above modeling methods provide broad approaches of combining the expression of genes to predict sample toxicity. One could also provide no weight in a simple voting method or determine weights in a supervised or unsupervised method using agglomerate, divisive, or random approaches. All or selected combinations of genes may be combined in ordered, agglomerate, or divisive, supervised or unsupervised clustering algorithms with unknown samples for classification. Any form of correlation matrix may also be used to classify unknown samples. The spread of the group distribution and discriminate score alone provide enough information to enable a skilled person to generate all of the above types of models with accuracy that can exceed the discriminate ability of individual genes. Some examples of methods that could be used individually or in combination after transformation of data types include but are not limited to: Discriminant Analysis, Multiple Discriminant Analysis, logistic regression, multiple regression analysis, linear regression analysis, conjoint analysis, canonical correlation, hierarchical cluster analysis, k-means cluster analysis, self-organizing maps, multidimensional scaling, structural equation modeling, support vector machine determined boundaries, factor analysis, neural networks, bayesian classifications, and resampling methods.

**Example 4: Grouping of Individual compound and Pathology Classes**

[00180] Samples were grouped into individual pathology classes based on known toxicological responses and observed clinical chemical and pathology measurements or into observable toxicity produced by a compound (Tables 5A-5XX). The top 10, 25, 50, 100 genes based on individual discriminate scores were used in a model to ensure that a combination of genes provided a better prediction than individual genes. As described above, all combinations of two or more genes from this list could potentially provide better prediction than individual genes when selected in any order or by ordered, agglomerate, divisive, or random approaches. In addition, combining these genes with other genes could provide better predictive ability, but most of this predictive ability would come from the genes listed herein.

[00181] A sample may be considered a Tox sample if it scores positive in any pathological or individual compound class represented here, or in any modeling method mentioned under general toxicology models, based on a combination of the sample's time point and dosage group in a study using an individual compound (with known or potentially toxic properties) by comparisons obtainable from the data. The pathological groupings and early and late

phase models are preferred examples of all obtainable combinations of sample time and dose points. Most logical groupings with one or more genes and one or more sample dose and time points should produce better predictions of general toxicity, pathological specific toxicity, or similarity to a known toxin than individual genes.

[00182] Although the present invention has been described in detail with reference to examples above, it is understood that various modifications can be made without departing from the spirit of the invention. Accordingly, the invention is limited only by the following claims. All cited patents, patent applications and publications referred to in this application are herein incorporated by reference in their entirety.



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Attorney Docket No. 44921-5113WO  
Document No. 1926271.2

TABLE 1					
SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
29	16901	AA799479	r	HHs:NADH dehydrogenase (ubiquinone) Fe-S protein 8 (23kD) (NADH-coenzyme Q reductase)	ESTs, Highly similar to NUIM_HUMAN NADH-ubiquinone oxidoreductase 23 kDa subunit, mitochondrial precursor (Complex I-23KD) (CI-23KD) (TYKY subunit) [H.sapiens]
196	16756	AA818089	q, z	HHs:glycyl-tRNA synthetase	ESTs, Highly similar to SYG_HUMAN Glycyl-tRNA synthetase (Glycine-tRNA ligase) (GlyRS) [H.sapiens]
231	5331	AA818996	ii, rr	HHs:glutamyl-tRNA synthetase	ESTs, Moderately similar to SYQ_HUMAN Glutamyl-tRNA synthetase (Glutamine-tRNA ligase) (GLNRS) [H.sapiens]
735	12031	AA893860	General	HHs:threonyl-tRNA synthetase	ESTs, Moderately similar to SYTC_HUMAN Threonyl-tRNA synthetase, cytoplasmic (Threonine-tRNA ligase) (ThrRS) [H.sapiens]
913	10569	AA942681	n, z, General	HHs:ATPase, H <sup>+</sup> transporting, lysosomal 50/57kD V1 subunit H	ESTs, Highly similar to VATH_HUMAN Vacuolar ATP synthase subunit H (V-ATPase H subunit) (Vacuolar proton pump H subunit) (V-ATPase 50/57 kDa subunits) (Vacuolar proton pump subunit SFD) (CGI-11) [H.sapiens]
991	22283	AA945172	mm	HHs:leucine aminopeptidase 3	ESTs, Highly similar to AMPL_HUMAN Cytosol aminopeptidase (Leucine aminopeptidase) (LAP) (Leucyl aminopeptidase) (Proline aminopeptidase) (Prolyl aminopeptidase) [H.sapiens]
1202	16625	AA998062	j	HHs:Alg5, S. cerevisiae, homolog of	ESTs, Highly similar to T51776 dolichyl-phosphate beta-glucosyltransferase (EC 2.4.1.117) [imported] - human [H.sapiens]
1305	22056	AI008066	p, mm	HHs:ubiquinol-cytochrome c reductase hinge protein	ESTs, Moderately similar to UCRH_HUMAN Ubiquinol-cytochrome C reductase complex 11 kDa protein, mitochondrial precursor (Mitochondrial hinge protein) (Cytochrome C1, nonheme 11 kDa protein) (Complex III subunit VIII) [H.sapiens]
1667	10138	AI059048	m	HHs:Sp3 transcription factor	EST, Highly similar to SP3_HUMAN TRANSCRIPTION FACTOR SP3 (SPR-2) [H.sapiens]
1753	16058	AI071490	General, vv	HHs:serine palmitoyltransferase, long chain base subunit 2	ESTs, Highly similar to JC5180 serine C-palmitoyltransferase (EC 2.3.1.50) Lcb2 chain - mouse [M.musculus]
1957	18278	AI105080	m	HHs:3-oxoacid CoA transferase	ESTs, Highly similar to SCOT_HUMAN Succinyl-CoA:3-ketoacid-coenzyme A transferase, mitochondrial precursor (Succinyl CoA:3-oxoacid CoA-transferase) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2143	17027	AI170679	xx	HHs:UDP-glucose pyrophosphorylase 2	ESTs, Highly similar to UDP-glucose pyrophosphorylase 2; UTP-glucose-1-phosphate uridylyltransferase; UDP-glucose diphosphorylase; UGPase 2 [Homo sapiens] [H.sapiens]
2434	3376	AI179755	w	HHs:Rho guanine nucleotide exchange factor (GEF) 5	ESTs, Highly similar to Rho guanine nucleotide exchange factor 5; oncogene TIM; transforming immortalized mammary oncogene; guanine nucleotide regulatory protein TIM [Homo sapiens] [H.sapiens]
2865	4714	AI639518	k, ww, xx	HHs:polymerase (RNA) II (DNA directed) polypeptide H	ESTs, Highly similar to S55370 RNA polymerase II chain hRPB17 - human [H.sapiens]
3524	23424	NM_021680	x, z	HHs:alanyl-tRNA synthetase	ESTs, Highly similar to SYA_HUMAN Alanyl-tRNA synthetase (Alanine-tRNA ligase) (AlaRS) [H.sapiens]
4301	242	NM_145683	u	HHs:protein tyrosine phosphatase, non-receptor type 7	Rattus norvegicus cytosolic protein tyrosine phosphatase HePTP/LC-PTP mRNA, complete cds
885	16945	AA925541	c	heterogeneous nuclear ribonucleoprotein L	heterogeneous nuclear ribonucleoprotein L
886	17513	AA925554	h, u	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
1354	22748	AI009786	gg, hh	ribosomal protein L41	ribosomal protein L41
2879	18456	D00688	bb	monoamine oxidase A	ESTs, Highly similar to 1903159A monoamine oxidase A [Rattus norvegicus] [R.norvegicus]
2943	24513	J02705	v	Oncomodulin	Oncomodulin
3078	24504	NM_012574	k	Glutamate receptor, ionotropic, N-methyl D-aspartate 2B	Glutamate receptor, ionotropic, N-methyl D-aspartate 2B
3084	24735	NM_012596	pp	Leptin receptor (fatty)	Leptin receptor (fatty)
3288	1561	NM_016995	d, v, uu	Complement component 4 binding protein, beta	Complement component 4 binding protein, beta
3296	6598	NM_017020	j, n, xx	Interleukin 6 receptor	Interleukin 6 receptor
3485	235	NM_019347	ii	Urea transporter, solute carrier family 14, member 2	Urea transporter
3680	22282	NM_024394	h, m, General, uu	5-Hydroxytryptamine (serotonin) receptor 3A	5-Hydroxytryptamine (serotonin) receptor 3A
3728	301	NM_031049	jj	2,3-oxidosqualene: lanosterol cyclase	2,3-oxidosqualene: lanosterol cyclase
3728	302	NM_031049	jj	2,3-oxidosqualene: lanosterol cyclase	2,3-oxidosqualene: lanosterol cyclase
3728	303	NM_031049	k, jj	2,3-oxidosqualene: lanosterol cyclase	2,3-oxidosqualene: lanosterol cyclase
3880	13186	NM_031755	n	carcinoembryonic antigen-related cell adhesion molecule	carcinoembryonic antigen-related cell adhesion molecule

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4143	13424	NM_080899	ww	inhibitor of kappa light polypeptide enhancer in B-cells, kinase complex-associated protein	inhibitor of kappa light polypeptide enhancer in B-cells, kinase complex-associated protein
4145	24604	NM_080906	r, pp	HIF-1 responsive RTP801	HIF-1 responsive RTP801
4153	17512	NM_130428	w	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
4396	1359	U78977	mm	ATPase, Class II, type 9A	ATPase, Class II, type 9A
3445	18362	NM_019187	n, ff	Coenzyme Q (ubiquinone)	Coenzyme Q (ubiquinone)
3709	25476	NM_031009	xx	angiotensin II type-1 receptor	angiotensin II type-1 receptor
12	21815	AA686423	o		ESTs, Highly similar to T46390 hypothetical protein DKFZp434C1920.1 - human (fragment) [H.sapiens]
18	3636	AA799336	qq		ESTs, Moderately similar to T00741 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) acyl carrier chain, mitochondrial - human (fragment) [H.sapiens]
23	20957	AA799440	ff		ESTs, Moderately similar to L13 protein [Homo sapiens] [H.sapiens]
28	19675	AA799475	s, oo		ESTs, Weakly similar to T08700 hypothetical protein DKFZp564G013.1 - human (fragment) [H.sapiens]
42	16576	AA799570	c, u		ESTs, Highly similar to hypothetical protein FLJ13725; KIAA1930 protein [Homo sapiens] [H.sapiens]
44	20973	AA799581	v, General		ESTs, Moderately similar to Y218_HUMAN Putative deoxyribonuclease KIAA0218 [H.sapiens]
50	19472	AA799616	c, f, p, General, kk		ESTs, Moderately similar to PTTG_HUMAN Pituitary tumor-transforming gene 1 protein-interacting protein (Pituitary tumor-transforming gene protein binding factor) (PTTG-binding factor) (PBF) [H.sapiens]
51	20980	AA799633	dd, oo		ESTs, Moderately similar to hypothetical protein MGC13016 [Homo sapiens] [H.sapiens]
69	16730	AA799766	l		ESTs, Moderately similar to JTV1; hypothetical protein PRO0992 [Homo sapiens] [H.sapiens]
71	11531	AA799773	d		ESTs, Weakly similar to A37098 gelation factor ABP-280, long form - human [H.sapiens]
91	20811	AA799899	ee		ESTs, Highly similar to R5RT18 ribosomal protein L18a, cytosolic [validated] - rat [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
103	9202	AA800053	c		ESTs, Highly similar to T08775 hypothetical protein DKFZp586C1620.1 - human (fragment) [H.sapiens]
105	23329	AA800126	tt		ESTs, Highly similar to I55595 splicing factor - human [H.sapiens]
115	22918	AA800243	o, p, w, ii, rr		ESTs, Highly similar to CIDA_MOUSE Cell death activator CIDE-A (Cell death-inducing DFFA-like effector A) [M.musculus]
120	17206	AA800296	u		ESTs, Highly similar to PAP_HUMAN Poly(A) polymerase alpha (PAP) (Polynucleotide adenylyltransferase alpha) [H.sapiens]
136	17997	AA800671	h, p, w, General		ESTs, Moderately similar to A54854 Ras GTPase activating protein-related protein - human [H.sapiens]
149	21379	AA800738	ll		ESTs, Highly similar to T160_HUMAN 60 kDa Tat interactive protein (HIV-1 Tat interactive protein) [H.sapiens]
155	19102	AA800794	ww		ESTs, Highly similar to HT2A_HUMAN Zinc-finger protein HT2A (72 kDa Tat-interacting protein) (Tripartite motif-containing protein 32) [H.sapiens]
160	10320	AA800855	k		ESTs, ESTs, Highly similar to MLF2_MOUSE Myeloid leukemia factor 2 (Myelodysplasia-myeloid leukemia factor 2) [M.musculus]
160	17775	AA800855	cc		ESTs, Highly similar to MLF2_MOUSE Myeloid leukemia factor 2 (Myelodysplasia-myeloid leukemia factor 2) [M.musculus]
164	19440	AA800946	ll		EST, Moderately similar to B Chain B, Crystal Structure Of The D1d2 Sub-Complex From The Human Snmp Core Domain [H.sapiens]
170	21437	AA801230	z		ESTs, Highly similar to hypothetical protein MGC19606 [Homo sapiens] [H.sapiens]
208	6332	AA818406	u		ESTs, Highly similar to LSM6_HUMAN U6 snRNA-associated Sm-like protein LSM6 [H.sapiens]
232	5527	AA819027	gg, hh		ESTs, Highly similar to GLYC_MOUSE Serine hydroxymethyltransferase, cytosolic (Serine methylase) (Glycine hydroxymethyltransferase) (SHMT) [M.musculus]
240	7208	AA819337	t, mm, qq		ESTs, Highly similar to T47140 hypothetical protein DKFZp761K1115.1 - human (fragment) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
241	17024	AA819356	j		ESTs, Moderately similar to hypothetical protein MGC15677 [Homo sapiens] [H.sapiens]	
287	19412	AA849222	jj		ESTs, Weakly similar to T46904 hypothetical protein DKFZp761D081.1 - human [H.sapiens]	
295	22933	AA849763	y		ESTs, Moderately similar to Y188_HUMAN Hypothetical protein KIAA0188 [H.sapiens]	
299	18876	AA849790	u		ESTs, Highly similar to hypothetical protein FLJ11773 [Homo sapiens] [H.sapiens]	
301	14608	AA849805	j, ss		ESTs, Highly similar to HLA-B associated transcript-5; BAT5 protein [Homo sapiens] [H.sapiens]	
303	22071	AA849843	uu, ww		ESTs, Highly similar to T08661 anti-silencing protein ASF1 homolog DKFZp547E2110.1 - human [H.sapiens]	
331	14963	AA851161	ii		ESTs, Highly similar to DYNC_HUMAN Dynactin complex 50 kDa subunit (50 kDa dynein-associated polypeptide) (Dynamitin) (DCTN-50) [H.sapiens]	
333	12769	AA851192	a, cc, jj		ESTs, Highly similar to T46254 hypothetical protein DKFZp761H171.1 - human [H.sapiens]	
336	19187	AA851230	General, pp		ESTs, Moderately similar to hypothetical protein MGC11102 [Homo sapiens] [H.sapiens]	
341	3833	AA851255	ss		ESTs, Highly similar to T14743 hypothetical protein DKFZp586F1524.1 - human (fragment) [H.sapiens]	
347	11221	AA851352	ll		ESTs, Highly similar to A24050 ribonucleoside-diphosphate reductase (EC 1.17.4.1) chain M1 - mouse [M.musculus]	
357	19269	AA851785	General		ESTs, Highly similar to eukaryotic translation initiation factor 3, subunit 8 (110kD) [Homo sapiens] [H.sapiens]	
363	16409	AA852027	pp		ESTs, Weakly similar to DIA1_HUMAN Diaphanous protein homolog 1 (Diaphanous-related formin 1) (DRF1) [H.sapiens]	
368	10517	AA858600	nn		ESTs, Highly similar to I54388 LZTR-1 - human [H.sapiens]	
392	15148	AA859325	w		ESTs, Highly similar to hypothetical protein MGC14151 [Homo sapiens] [H.sapiens]	
403	23340	AA859519	jj		ESTs, Highly similar to JC6127 RNA-binding protein type 1 - human [H.sapiens]	
403	23341	AA859519	bb		ESTs, Highly similar to JC6127 RNA-binding protein type 1 - human [H.sapiens]	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
423	19486	AA859870	l, nn		ESTs, Weakly similar to Y063_HUMAN Hypothetical protein KIAA0063 (HA1234) [H.sapiens]
436	23346	AA859983	c		ESTs, Weakly similar to T50607 hypothetical protein DKFZp434I1016.1 - human (fragment) [H.sapiens]
440	23347	AA860015	c		ESTs, Weakly similar to T50607 hypothetical protein DKFZp434I1016.1 - human (fragment) [H.sapiens]
462	16042	AA874827	cc		ESTs, Weakly similar to Y008_HUMAN Hypothetical protein KIAA0008 [H.sapiens]
463	15182	AA874832	ff		ESTs, Moderately similar to anaphase-promoting complex subunit 5 [Homo sapiens] [H.sapiens]
469	15115	AA874928	r, v		ESTs, Highly similar to SNX4_HUMAN Sorting nexin 4 [H.sapiens]
474	16215	AA874999	j		ESTs, Highly similar to protein translocation complex beta; protein transport protein SEC61 beta subunit [Homo sapiens] [H.sapiens]
493	7875	AA875127	x		ESTs, Highly similar to cell division cycle 2-like 5, isoform 1; cholinesterase-related cell division controller; CDC2-related protein kinase 5 [Homo sapiens] [H.sapiens]
498	15371	AA875205	xx		ESTs, Highly similar to IF39_HUMAN Eukaryotic translation initiation factor 3 subunit 9 (eIF-3 eta) (eIF3 p116) (eIF3 p110) [H.sapiens]
498	15372	AA875205	y, General, gg, hh, ll		ESTs, Highly similar to IF39_HUMAN Eukaryotic translation initiation factor 3 subunit 9 (eIF-3 eta) (eIF3 p116) (eIF3 p110) [H.sapiens]
505	15410	AA875268	r		ESTs, Highly similar to NUKM_HUMAN NADH-ubiquinone oxidoreductase 20 kDa subunit, mitochondrial precursor (Complex I-20KD) (CI-20KD) (PSST subunit) [H.sapiens]
513	17314	AA875509	r		ESTs, Moderately similar to S15349 mdm2 protein - mouse [M.musculus]
522	11889	AA875641	k		ESTs, Highly similar to A Chain A, The Sh3 Domain Of Eps8 Exists As A Novel Intertwined Dimer [M.musculus]
523	18152	AA875661	x		ESTs, Highly similar to S58284 BCL7B protein - human [H.sapiens]
537	16037	AA891441	j		ESTs, Moderately similar to MPL3_RAT Microtubule-associated proteins 1A/1B light chain 3 (MAP1A/MAP1B LC3) [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
540	21952	AA891537	tt		ESTs, Weakly similar to protein predicted by clone 23733 [Homo sapiens] [H.sapiens]	
561	17271	AA891759	a, s		ESTs, Moderately similar to hypothetical protein MGC4308 [Homo sapiens] [H.sapiens]	
566	11966	AA891800	w		ESTs, Weakly similar to F22G12.5.p [Caenorhabditis elegans] [C.elegans], ESTs, Weakly similar to IPYR_HUMAN Inorganic pyrophosphatase (Pyrophosphate phosphohydrolase) (PPase) [H.sapiens]	
579	17779	AA891914	w		ESTs, Moderately similar to A47488 aminoacylase (EC 3.5.1.14) - human [H.sapiens]	
582	23862	AA891933	g		ESTs, Moderately similar to A Chain A, Crystal Structure Of SmacDIABLO [H.sapiens]	
605	8317	AA892234	b, s, z, General		ESTs, Moderately similar to microsomal glutathione S-transferase 3; microsomal glutathione S-transferase III [Homo sapiens] [H.sapiens]	
609	22903	AA892250	h, q, dd		ESTs, Highly similar to SYK_HUMAN Lysyl-tRNA synthetase (Lysine-tRNA ligase) (LysRS) [H.sapiens]	
616	4373	AA892310	v		ESTs, Highly similar to T08783 hypothetical protein DKFZp586O0120.1 - human (fragment) [H.sapiens]	
617	17405	AA892313	ii, rr		ESTs, Moderately similar to beta-tubulin cofactor E [Homo sapiens] [H.sapiens]	
630	16469	AA892462	j, mm		ESTs, Moderately similar to UCRY_HUMAN Ubiquinol-cytochrome C reductase complex 6.4 kDa protein (Complex III subunit XI) [H.sapiens]	
637	11994	AA892507	h		ESTs, Moderately similar to S63540 protein DS 1, 24K - human [H.sapiens]	
673	22872	AA892859	g, rr		ESTs, Weakly similar to PLO1_RAT Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 precursor (Lysyl hydroxylase 1) (LH1) [R.norvegicus]	
686	3439	AA893000	o		ESTs, Moderately similar to T00335 hypothetical protein KIAA0564 - human (fragment) [H.sapiens]	
694	13856	AA893183	gg, hh		ESTs, Weakly similar to S57447 HPBRII-7 protein - human [H.sapiens]	
694	13857	AA893183	bb		ESTs, Weakly similar to S57447 HPBRII-7 protein - human [H.sapiens]	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
699	3877	AA893224	d		ESTs, Highly similar to UBPJ_HUMAN Ubiquitin carboxyl-terminal hydrolase 19 (Ubiquitin thiolesterase 19) (Ubiquitin-specific processing protease 19) (Deubiquitinating enzyme 19) [H.sapiens]
702	3879	AA893237	t, cc, xx		ESTs, Moderately similar to hypothetical protein MBC3205 [Homo sapiens] [H.sapiens]
728	19411	AA893667	r		ESTs, Weakly similar to T46904 hypothetical protein DKFZp761D081.1 - human [H.sapiens]
731	24185	AA893708	y		ESTs, Highly similar to T00333 hypothetical protein KIAA0560 - human [H.sapiens]
732	17858	AA893741	c, d, oo		ESTs, Moderately similar to T46305 hypothetical protein DKFZp434D1411.1 - human (fragment) [H.sapiens]
772	22490	AA899289	ii		ESTs, Moderately similar to KIAA1049 protein [Homo sapiens] [H.sapiens]
775	4636	AA899491	m		ESTs, Highly similar to SYW_MOUSE Tryptophanyl-tRNA synthetase (Tryptophan-tRNA ligase) (TrpRS) [M.musculus]
785	21213	AA899991	f, General		ESTs, ESTs, Highly similar to T46254 hypothetical protein DKFZp761H171.1 - human [H.sapiens]
786	15373	AA900018	x		ESTs, Highly similar to IF39_HUMAN Eukaryotic translation initiation factor 3 subunit 9 (eIF-3 eta) (eIF3 p116) (eIF3 p110) [H.sapiens]
797	16754	AA900474	d		ESTs, Moderately similar to T50619 hypothetical protein DKFZp762M136.1 - human (fragment) [H.sapiens]
810	12335	AA901065	k, cc		ESTs, Highly similar to T17225 hypothetical protein DKFZp564C246.1 - human [H.sapiens]
816	17096	AA901343	g		ESTs, Moderately similar to suppressor of G2 allele of SKP1 [Homo sapiens] [H.sapiens]
823	12354	AA923957	a, k, cc, tt		ESTs, Weakly similar to UDP-N-acetylglucosamine pyrophosphorylase 1; AgX; sperm associated antigen 2; UDP-N-acetylglucosamine pyrophosphorylase 1; Sperm associated antigen 2 [Homo sapiens] [H.sapiens]
830	4917	AA924140	p		ESTs, Weakly similar to Y193_HUMAN Hypothetical protein KIAA0193 [H.sapiens]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
834	4931	AA924261	oo		ESTs, Weakly similar to PRS4_MOUSE 26S PROTEASE REGULATORY SUBUNIT 4 (P26S4) [R.norvegicus]
852	5009	AA924737	qq		ESTs, Highly similar to T17237 hypothetical protein DKFZp434P106.1 - human (fragment) [H.sapiens]
860	2462	AA924913	d		ESTs, Moderately similar to T50619 hypothetical protein DKFZp762M136.1 - human (fragment) [H.sapiens]
906	16468	AA926137	p, t, y, mm		ESTs, Moderately similar to UCRY_HUMAN Ubiquinol-cytochrome C reductase complex 6.4 kDa protein (Complex III subunit XI) [H.sapiens]
915	9942	AA942697	y		ESTs, Highly similar to hypothetical protein MGC3133 [Homo sapiens] [H.sapiens]
921	22102	AA942845	m		ESTs, Weakly similar to Y218_HUMAN Putative deoxyribonuclease KIAA0218 [H.sapiens]
931	21993	AA943149	t, ff		ESTs, Weakly similar to T00084 hypothetical protein KIAA0512 - human [H.sapiens]
939	21911	AA943610	s		ESTs, Highly similar to T08795 hypothetical protein DKFZp586J1822.1 - human (fragment) [H.sapiens]
968	17948	AA944581	f		ESTs, Moderately similar to A57088 nucleoporin-like protein Rab - human [H.sapiens]
969	22471	AA944617	bb		ESTs, Highly similar to CU02_HUMAN Protein C21orf2 (C21orf-HUMF09G8.5) (YF5/A2) [H.sapiens]
972	22492	AA944741	dd		ESTs, Moderately similar to KIAA1049 protein [Homo sapiens] [H.sapiens]
980	23423	AA944912	dd		ESTs, Moderately similar to ERC6_HUMAN Excision repair protein ERCC-6 (Cockayne syndrome protein CSB) [H.sapiens]
1007	22636	AA945724	v		ESTs, Weakly similar to T12543 hypothetical protein DKFZp434M154.1 - human (fragment) [H.sapiens]
1009	9657	AA945739	e		ESTs, Moderately similar to Y391_HUMAN Hypothetical protein KIAA0391 [H.sapiens]
1011	21334	AA945753	pp		ESTs, Moderately similar to ANM2_HUMAN Protein arginine N-methyltransferase 2 [H.sapiens]
1034	21410	AA946408	c		ESTs, Moderately similar to MCA3_HUMAN Multisynthetase complex auxiliary component p18 [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1038	18383	AA946421	m		ESTs, Highly similar to S59641 transcription factor TFEB - mouse (fragment) [M.musculus]
1054	17191	AA955382	c		ESTs, Highly similar to T46457 hypothetical protein DKFZp434L032.1 - human (fragment) [H.sapiens]
1062	23278	AA955553	l		ESTs, Moderately similar to hypothetical protein IMAGE3455200 [Homo sapiens] [H.sapiens]
1064	23637	AA955587	pp		ESTs, Highly similar to A45142 cleavage stimulation factor 50K chain - human [H.sapiens]
1080	24046	AA956185	e		ESTs, Moderately similar to COQ6_HUMAN Putative ubiquinone biosynthesis monooxygenase COQ6 (CGI-10) [H.sapiens]
1085	18669	AA956453	w		ESTs, Highly similar to OBRG_MOUSE Leptin receptor gene-related protein (OB-R gene related protein) (OB-RGRP) [M.musculus]
1087	23800	AA956534	j		ESTs, Weakly similar to RNG1_HUMAN Polycomb complex protein RING1 (RNF1) [H.sapiens]
1089	23852	AA956746	p		ESTs, Highly similar to CHD4_HUMAN Chromodomain helicase-DNA-binding protein 4 (CHD-4) (Mi-2 autoantigen 218 kDa protein) (Mi2-beta) [H.sapiens]
1104	18413	AA957763	ff		ESTs, Highly similar to UBPI_HUMAN Ubiquitin carboxyl-terminal hydrolase 19 (Ubiquitin thiolesterase 19) (Ubiquitin-specific processing protease 19) (Deubiquitinating enzyme 19) [H.sapiens]
1111	15183	AA963036	l		ESTs, Moderately similar to anaphase-promoting complex subunit 5 [Homo sapiens] [H.sapiens]
1112	5952	AA963102	r	amino acid transporter system A2	amino acid transporter system A2
1125	2270	AA964116	s		ESTs, Moderately similar to tripartite motif-containing 37; RING-B-box-coiled-coil protein; MUL protein; Mulibrey nanism [Homo sapiens] [H.sapiens]
1136	24166	AA964630	d, n		ESTs, Moderately similar to T02345 hypothetical protein KIAA0324 - human (fragment) [H.sapiens]
1153	2583	AA965166	u, mm		ESTs, Moderately similar to IPYR_HUMAN Inorganic pyrophosphatase (Pyrophosphate phospho-hydrolase) (PPase) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
1161	2809	AA996471	p		ESTs, Moderately similar to JM11 protein [Homo sapiens] [H.sapiens]	
1167	11928	AA996829	gg, hh		ESTs, Moderately similar to T46305 hypothetical protein DKFZp434D1411.1 - human (fragment) [H.sapiens]	
1207	3367	AA998110	xx		ESTs, Weakly similar to YCE3_HUMAN Hypothetical protein CGI-143 [H.sapiens]	
1208	12628	AA998123	General		ESTs, Moderately similar to JC5707 HYA22 protein - human [H.sapiens]	
1219	26118	AA998471	d		ESTs, Highly similar to I49668 binding protein - mouse [M.musculus]	
1223	23648	AA998547	mm		ESTs, Highly similar to Y144_HUMAN Hypothetical protein KIAA0144 [H.sapiens]	
1225	26120	AA998619	s		ESTs, Weakly similar to T51776 dolichyl-phosphate beta-glucosyltransferase (EC 2.4.1.117) [imported] - human [H.sapiens]	
1231	3660	AA998833	j		ESTs, Weakly similar to T46908 hypothetical protein DKFZp761G2423.1 - human [H.sapiens]	
1235	2526	AA998979	bb		ESTs, Moderately similar to T00051 hypothetical protein KIAA0404 - human (fragment) [H.sapiens]	
1238	3710	AA999064	s, t		ESTs, Highly similar to T47142 hypothetical protein DKFZp761P0724.1 - human (fragment) [H.sapiens]	
1254	23417	AB022209	l, General, kk	ribonucleoprotein F	ribonucleoprotein F	
1272	13464	AF047707	f, ss	UDP-glucose:ceramide glycosyltransferase	UDP-glucose:ceramide glycosyltransferase	
1303	17359	AI007981	mm		ESTs, Moderately similar to UCRX_HUMAN Ubiquinol-cytochrome C reductase complex 7.2 kDa protein (Cytochrome C1, nonheme 7 kDa protein) (Complex III subunit X) (7.2 kDa cytochrome c1-associated protein subunit) (HSPC119) [H.sapiens]	
1325	22801	AI009197	a		ESTs, Moderately similar to hypothetical protein IMAGE3455200 [Homo sapiens] [H.sapiens]	
1332	16956	AI009390	ee		ESTs, Moderately similar to NIPM_HUMAN NADH-ubiquinone oxidoreductase 15 kDa subunit (Complex I-15 kDa) (CI-15 kDa) [H.sapiens]	
1337	11322	AI009492	j		ESTs, Highly similar to hypothetical protein [Homo sapiens] [H.sapiens]	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1363	8047	AI010100	e		ESTs, Highly similar to vacuolar protein sorting 18 (yeast), isoform 1; vacuolar protein sorting protein 18 [Homo sapiens] [H.sapiens]
1402	23768	AI011709	ii		ESTs, Moderately similar to S21977 Pm5 protein - human [H.sapiens]
1406	18684	AI011812	pp		ESTs, Highly similar to T12468 hypothetical protein DKFZp564O123.1 - human [H.sapiens]
1432	5528	AI012631	bb, qq		Rattus norvegicus mRNA for Vps54-like protein
1433	12475	AI012632	c		ESTs, Weakly similar to hypothetical protein FLJ14775 [Homo sapiens] [H.sapiens]
1439	9386	AI012785	c		ESTs, Weakly similar to T47142 hypothetical protein DKFZp761P0724.1 - human (fragment) [H.sapiens]
1443	2937	AI012951	pp		ESTs, Moderately similar to PEXD_HUMAN Peroxisomal membrane protein PEX13 (Peroxin-13) [H.sapiens]
1455	11969	AI013273	rr		ESTs, Highly similar to B27496 proteinase inhibitor nexin 1 precursor - rat (fragment) [R.norvegicus]
1460	12794	AI013442	ee		ESTs, Highly similar to T12539 hypothetical protein DKFZp434J154.1 - human [H.sapiens]
1461	23444	AI013448	rr		ESTs, Highly similar to chromosome 20 open reading frame 30; HSPC274 protein [Homo sapiens] [H.sapiens]
1463	12795	AI013482	y		ESTs, Highly similar to T17303 hypothetical protein DKFZp566F2124.1 - human (fragment) [H.sapiens]
1486	2909	AI013946	m		ESTs, Weakly similar to A34581 oxysterol-binding protein - human [H.sapiens]
1494	15247	AI014169	o, ii, ll, pp, xx	upregulated by 1,25-dihydroxyvitamin D-3	upregulated by 1,25-dihydroxyvitamin D-3
1504	7420	AI029291	l		ESTs, Highly similar to CLPX_MOUSE ATP-dependent CLP protease ATP-binding subunit ClpX-like, mitochondrial precursor [M.musculus]
1508	7451	AI029450	l, z, General		ESTs, Moderately similar to SYEP_HUMAN Bifunctional aminoacyl-tRNA synthetase [Includes: Glutamyl-tRNA synthetase (Glutamate-tRNA ligase); Prolyl-tRNA synthetase (Proline-tRNA ligase)] [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1550	5346	AI043601	gg, hh		ESTs, Weakly similar to T08680 hypothetical protein DKFZp564P0622.1 - human (fragment) [H.sapiens]
1583	7136	AI044604	s		ESTs, Weakly similar to T12528 hypothetical protein DKFZp434N093.1 - human (fragment) [H.sapiens]
1585	5556	AI044638	ii		ESTs, Moderately similar to Y127_HUMAN Hypothetical protein KIAA0127 [H.sapiens]
1603	5715	AI045158	v		ESTs, Moderately similar to hypothetical protein MGC4675 [Homo sapiens] [H.sapiens]
1605	11763	AI045196	tt		ESTs, Weakly similar to A47328 natural killer cell tumor-recognition protein - human [H.sapiens]
1613	6609	AI045458	ii, tt		ESTs, Highly similar to I55595 splicing factor - human [H.sapiens]
1623	6808	AI045600	a		ESTs, Highly similar to S30034 translocating chain-associating membrane protein - human [H.sapiens]
1631	5866	AI045751	y		ESTs, Moderately similar to SYN_HUMAN Asparaginyl-tRNA synthetase, cytoplasmic (Asparagine-tRNA ligase) (AsnRS) [H.sapiens]
1650	10080	AI058639	General		EST, Weakly similar to PRTZ_HUMAN Vitamin K-dependent protein Z precursor [H.sapiens]
1700	8496	AI059974	tt		ESTs, Moderately similar to T17285 hypothetical protein DKFZp434N0535.1 - human (fragment) [H.sapiens]
1703	8132	AI060050	p, bb		ESTs, Highly similar to NGP1_HUMAN Autoantigen NGP-1 [H.sapiens]
1706	10304	AI060149	b		ESTs, Weakly similar to T48687 hypothetical protein DKFZp761G1923.1 - human (fragment) [H.sapiens]
1710	4337	AI060281	ll		ESTs, Weakly similar to T50633 hypothetical protein DKFZp762F1811.1 - human (fragment) [H.sapiens]
1742	11596	AI071194	pp		ESTs, Weakly similar to S16506 hypothetical protein - human [H.sapiens]
1749	9615	AI071289	l, z		ESTs, Highly similar to Y779_HUMAN Hypothetical protein KIAA0779 [H.sapiens]
1761	9259	AI071606	q		ESTs, Highly similar to UBP1_HUMAN Ubiquitin carboxyl-terminal hydrolase 1 (Ubiquitin thiolesterase 1) (Ubiquitin-specific processing protease 1) (Deubiquitinating enzyme 1) (hUBP) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1773	17673	AI071895	ii		EST, Moderately similar to I38937 DNA/RNA binding protein - human (fragment) [H.sapiens]
1775	8665	AI071965	ee		ESTs, Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 - human (fragment) [H.sapiens], R.norvegicus hsp70.2 mRNA for heat shock protein 70
1840	16814	AI101462	jj		ESTs, Highly similar to cisplatin resistance related protein CRR9p [Homo sapiens] [H.sapiens]
1869	2972	AI102606	ss		ESTs, Moderately similar to NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10 (42kD) [Homo sapiens] [H.sapiens]
1871	7379	AI102643	d, dd, rr		ESTs, Moderately similar to 2105233A transcription factor ISGF3gamma [Mus musculus] [M.musculus]
1912	3940	AI103718	qq		ESTs, Highly similar to I39383 angio-associated migratory cell protein - human [H.sapiens]
1937	18395	AI104388	nn	heat shock 27kD protein 1	heat shock 27kD protein 1
1953	22957	AI104897	u, w		ESTs, Moderately similar to MEA6_HUMAN Meningioma-expressed antigen 6/11 (MEA6) (MEA11) [H.sapiens]
1955	24375	AI104979	q, z, dd, ee		ESTs, Moderately similar to EBNA1 binding protein 2; nucleolar protein p40; homolog of yeast EBNA1-binding protein; nuclear FGF3 binding protein; EBNA1-binding protein 2 [Homo sapiens] [H.sapiens]
1975	18466	AI111828	oo		ESTs, Highly similar to Y196_HUMAN Hypothetical protein KIAA0196 [H.sapiens]
1976	11339	AI111840	jj		ESTs, Moderately similar to PMVK_HUMAN PHOSPHOMEVALONATE KINASE (PMKASE) [H.sapiens]
2008	15196	AI136610	ee		ESTs, Highly similar to RRP5_HUMAN RRP5 protein homolog (Fragment) [H.sapiens]
2017	6552	AI137062	d		ESTs, Highly similar to OM07_HUMAN Probable mitochondrial import receptor subunit TOM7 homolog (Translocase of outer membrane 7 kDa subunit homolog) (Protein AD-014) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2032	7414	AI137586	n, p, z, General		ESTs, Highly similar to IMB3_HUMAN Importin beta-3 subunit (Karyopherin beta-3 subunit) (Ran-binding protein 5) [H.sapiens]
2033	14396	AI137689	s		Rattus norvegicus mRNA for Vps54-like protein
2042	6898	AI144623	p		ESTs, Moderately similar to TRI3_HUMAN Thyroid receptor interacting protein 3 (TRIP-3) [H.sapiens]
2051	12482	AI144965	p		ESTs, Highly similar to SN24_HUMAN Possible global transcription activator SNF2L4 (SNF2-beta) (BRG-1 protein) (Mitotic growth and transcription activator) (Brahma protein homolog 1) [H.sapiens]
2061	15399	AI145451	oo		ESTs, Highly similar to RR41_HUMAN Exosome complex exonuclease RRP41 (Ribosomal RNA processing protein 41) [H.sapiens]
2100	16727	AI169287	z, General, kk		ESTs, Highly similar to T47146 hypothetical protein DKFZp761C169.1 - human (fragment) [H.sapiens]
2107	11550	AI169591	a		ESTs, Highly similar to S57447 HPBRII-7 protein - human [H.sapiens]
2136	24048	AI170570	qq		ESTs, Moderately similar to COQ6_HUMAN Putative ubiquinone biosynthesis monooxygenase COQ6 (CGI-10) [H.sapiens]
2142	2750	AI170666	n, q, dd		ESTs, Highly similar to ARGR_HUMAN Arginine-rich protein [H.sapiens]
2146	1923	AI170754	r, z, ee		ESTs, Highly similar to T50836 Yippee protein [imported] - human (fragment) [H.sapiens]
2159	14941	AI171196	pp		ESTs, Highly similar to MAN1_HUMAN Inner nuclear membrane protein Man1 [H.sapiens]
2162	5953	AI171231	r, y, z, tt	amino acid transporter system A2	amino acid transporter system A2
2166	11518	AI171272	e		ESTs, Highly similar to similar to S. cerevisiae RER1 [Homo sapiens] [H.sapiens]
2178	17746	AI171615	ss		ESTs, Moderately similar to I39166 cellular apoptosis susceptibility protein CAS - human [H.sapiens]
2192	6085	AI171990	ww		ESTs, Highly similar to T50620 hypothetical protein DKFZp762M186.1 - human (fragment) [H.sapiens]
2194	22876	AI172041	r, w, z, ee		ESTs, Moderately similar to CGD7_HUMAN Protein CGI-137 (Protein AD-004) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2199	6057	AI172102	dd		ESTs, Highly similar to STXH_HUMAN Syntaxin 18 [H.sapiens]
2205	11416	AI172185	t, ff		ESTs, Highly similar to mitochondrial ribosomal protein L49; chromosome 11 open reading frame 4 [Homo sapiens] [H.sapiens]
2213	11525	AI172286	p		ESTs, Moderately similar to LPRC_HUMAN 130 kDa leucine-rich protein (LRP 130) (GP130) (Leucine-rich PPR-motif containing protein) [H.sapiens]
2229	7740	AI175011	vv		ESTs, Moderately similar to COF1_RAT COFILIN, NON-MUSCLE ISOFORM [R.norvegicus]
2236	6454	AI175342	p, kk		ESTs, Weakly similar to T31067 BIR repeat containing ubiquitin-conjugating enzyme BRUCE - mouse [M.musculus]
2242	18562	AI175515	s		ESTs, Moderately similar to PRTP_MOUSE Lysosomal protective protein precursor (Cathepsin A) (Carboxypeptidase C) (MO54) [M.musculus]
2257	1587	AI176063	ii		Rat general mitochondrial matrix processing protease (MPP) mRNA, 3' end
2261	7711	AI176125	e		ESTs, Moderately similar to T14773 hypothetical protein DKFZp564B0482.1 - human [H.sapiens]
2268	12999	AI176276	General		ESTs, Highly similar to UAP1_HUMAN UDP-N-acetylhexosamine pyrophosphorylase (Antigen X) (AGX) (Sperm-associated antigen 2) [Includes: UDP-N-acetylgalactosamine pyrophosphorylase (AGX-1); UDP-N-acetylglucosamine pyrophosphorylase (AGX-2)] [H.sapiens]
2277	17920	AI176422	n, kk, pp		ESTs, Highly similar to S41115 probable flavoprotein-ubiquinone oxidoreductase (EC 1.6.5.-) - human [H.sapiens]
2277	17921	AI176422	p, kk		ESTs, Highly similar to S41115 probable flavoprotein-ubiquinone oxidoreductase (EC 1.6.5.-) - human [H.sapiens]
2282	13678	AI176490	u		ESTs, Weakly similar to T00065 hypothetical protein KIAA0442 - human (fragment) [H.sapiens]
2290	3619	AI176588	vv		ESTs, Weakly similar to tumor protein p53-binding protein; topoisomerase I binding protein [Homo sapiens] [H.sapiens]
2314	4190	AI177016	z, ee		ESTs, Highly similar to LSM8_HUMAN U6 snRNA-associated Sm-like protein LSM8 [H.sapiens]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2328	23162	AI177353	a, q, x, dd		ESTs, Highly similar to A47220 dermatopontin precursor - human [H.sapiens]
2338	6315	AI177645	bb		ESTs, Weakly similar to S69890 mitogen inducible gene mig-2 - human [H.sapiens]
2357	16739	AI178151	cc		ESTs, Highly similar to T46366 hypothetical protein DKFZp434C0118.1 - human (fragment) [H.sapiens]
2360	23248	AI178267	b, f, p, q, General, dd		ESTs, Weakly similar to JC7185 chromosome 1 C1orf9 protein - human [H.sapiens]
2371	8418	AI178566	u		ESTs, Highly similar to T00260 hypothetical protein KIAA0605 - human [H.sapiens]
2374	23456	AI178665	p		ESTs, Moderately similar to T08719 hypothetical protein DKFZp566B183.1 - human [H.sapiens]
2375	11374	AI178672	k		ESTs, Weakly similar to G01614 zinc finger protein 127 - human [H.sapiens]
2391	1924	AI178902	r, z		ESTs, Highly similar to T50836 Yippee protein [imported] - human (fragment) [H.sapiens]
2400	4587	AI179092	ff		ESTs, Moderately similar to RL22_RAT 60S RIBOSOMAL PROTEIN L22 [R.norvegicus]
2402	13055	AI179100	General, jj		ESTs, Highly similar to CN01_HUMAN Protein C14orf1 (HSPC288) (Protein AD-011) (x0006) [H.sapiens]
2404	21631	AI179125	s		ESTs, Highly similar to eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD) [Homo sapiens] [H.sapiens]
2406	17358	AI179147	b, ii, pp		ESTs, Highly similar to B Chain B, Three-Dimensional Structure Of Human Electron Transfer Flavoprotein To 2.1 A Resolution [H.sapiens]
2410	13606	AI179289	j		ESTs, Weakly similar to S65464 pregnancy-associated plasma protein A precursor - human [H.sapiens]
2438	23989	AI179953	ii, ss		ESTs, Highly similar to 1604368A gap junction protein Cx26 [Rattus norvegicus] [R.norvegicus]
2446	17365	AI180249	m		ESTs, Highly similar to colon cancer-associated protein Mic1 [Homo sapiens] [H.sapiens]
2453	7460	AI180413	r		ESTs, Highly similar to NBRT apolipoprotein H precursor - rat [R.norvegicus]
2489	21822	AI228642	oo		ESTs, Highly similar to hypothetical protein MGC1936 [Homo sapiens] [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2502	23955	AI229178	e		ESTs, Highly similar to S51635 fibroblast growth factor receptor 2b, keratinocyte growth factor receptor - rat [R.norvegicus]
2508	11527	AI229307	rr, uu		ESTs, Highly similar to S27958 transcription factor BTF2 62K chain - human [H.sapiens]
2511	19138	AI229413	s		ESTs, Moderately similar to T00054 hypothetical protein KIAA0415 - human (fragment) [H.sapiens]
2513	23563	AI229421	pp		ESTs, Moderately similar to S78100 MAPK-activated protein kinase (EC 2.7.1.-) 2 - mouse (fragment) [M.musculus]
2523	2688	AI229793	k, s		ESTs, Weakly similar to hypothetical protein FLJ20010 [Homo sapiens] [H.sapiens]
2527	13879	AI230004	oo		ESTs, Moderately similar to T00374 hypothetical protein KIAA0648 - human (fragment) [H.sapiens]
2528	4722	AI230038	c, ll		ESTs, Moderately similar to T08811 hypothetical protein DKFZp586M1523.1 - human (fragment) [H.sapiens]
2535	4662	AI230215	ll		ESTs, Moderately similar to hypothetical protein FLJ10468 [Homo sapiens] [H.sapiens]
2536	15862	AI230228	m, n, u		ESTs, Weakly similar to SERC_HUMAN Phosphoserine aminotransferase (PSAT) [H.sapiens]
2555	24270	AI230758	rr		ESTs, Moderately similar to cargo selection protein (mannose 6 phosphate receptor binding pr; cargo selection protein (mannose 6 phosphate receptor binding protein) [Homo sapiens] [H.sapiens]
2557	8036	AI230884	c, tt		ESTs, Highly similar to HMBA-inducible [Homo sapiens] [H.sapiens]
2565	14303	AI231159	y		ESTs, Highly similar to KIAA1049 protein [Homo sapiens] [H.sapiens]
2576	19271	AI231566	f, q, pp, ww		ESTs, Highly similar to MAX_RAT MAX protein [R.norvegicus]
2588	24501	AI232006	m	translation elongation factor 1-delta subunit	translation elongation factor 1-delta subunit
2606	15122	AI232303	g, General, dd		ESTs, Weakly similar to JC5393 zinc finger protein KF-1 precursor - mouse [M.musculus]
2619	14051	AI232489	w, z, dd, ee		ESTs, Weakly similar to dual specificity phosphatase 11; RNA/RNP complex-interacting phosphatase; serine/threonine specific protein phosphatase [Homo sapiens] [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2620	3662	AI232506	o		ESTs, Weakly similar to T46908 hypothetical protein DKFZp761G2423.1 - human [H.sapiens]
2628	13645	AI232694	tt		ESTs, Weakly similar to S24C_HUMAN Protein transport protein Sec24C (SEC24-related protein C) [H.sapiens]
2638	17240	AI233054	mm		ESTs, Weakly similar to UCRQ_HUMAN Ubiquinol-cytochrome C reductase complex ubiquinone-binding protein QP-C (Ubiquinol-cytochrome C reductase complex 9.5 kDa protein) (Complex III subunit VII) [H.sapiens]
2646	11507	AI233222	ee		ESTs, Highly similar to hypothetical protein MGC2803 [Homo sapiens] [H.sapiens]
2661	18900	AI233570	ee		ESTs, Highly similar to PSD8_HUMAN 26S proteasome non-ATPase regulatory subunit 8 (26S proteasome regulatory subunit S14) (p31) [H.sapiens]
2663	7888	AI233583	n, kk		ESTs, Highly similar to SYR_HUMAN ARGINYL-TRNA SYNTHETASE (ARGININE-TRNA LIGASE) (ARGRS) [H.sapiens], ESTs, Moderately similar to JC4365 arginine-tRNA ligase (EC 6.1.1.19) - human [H.sapiens]
2669	7243	AI233717	z, ee		ESTs, Moderately similar to ERHUAH coatomer complex alpha chain homolog - human [H.sapiens]
2670	17210	AI233746	pp		ESTs, Weakly similar to SC14_HUMAN SEC14-like protein 1 [H.sapiens]
2695	14745	AI234919	bb, mm		ESTs, Moderately similar to SYHUQT multifunctional aminoacyl-tRNA ligase - human [H.sapiens]
2698	3875	AI235047	q		ESTs, Highly similar to S50082 nuclear cap binding protein - human [H.sapiens]
2717	20140	AI235566	g		ESTs, Moderately similar to SYEP_HUMAN Bifunctional aminoacyl-tRNA synthetase [Includes: Glutamyl-tRNA synthetase (Glutamate-tRNA ligase); Prolyl-tRNA synthetase (Proline-tRNA ligase)] [H.sapiens]
2722	24373	AI235748	l, y, ee, rr		ESTs, Moderately similar to Y110_HUMAN Hypothetical protein KIAA0110 (HA0666) [H.sapiens]
2725	14768	AI235912	f		ESTs, Weakly similar to highly charged protein [Homo sapiens] [H.sapiens]
2732	6976	AI236072	qq		ESTs, Weakly similar to T08680 hypothetical protein DKFZp564P0622.1 - human (fragment) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2738	14879	AI236200	ee		ESTs, Moderately similar to M1A1_MOUSE Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA (Processing alpha-1,2-mannosidase IA) (Alpha-1,2-mannosidase IA) (Mannosidase alpha class 1A member 1) (Man(9)-alpha-mannosidase) [M.musculus]
2746	15398	AI236566	s		ESTs, Moderately similar to T12473 hypothetical protein DKFZp564G1762.1 - human (fragment) [H.sapiens]
2748	23249	AI236597	p, ff		ESTs, Weakly similar to JC7185 chromosome 1 C1orf9 protein - human [H.sapiens]
2781	21653	AI237535	l, qq	LPS-induced TNF-alpha factor	LPS-induced TNF-alpha factor
2789	15248	AI237654	nn, xx	upregulated by 1,25-dihydroxyvitamin D-3	upregulated by 1,25-dihydroxyvitamin D-3
2832	18533	AI639231	g		ESTs, Highly similar to T46480 hypothetical protein DKFZp434L1850.1 - human (fragment) [H.sapiens]
2839	25942	AI639291	cc		ESTs, Weakly similar to S38783 integrin alpha chain - rat (fragment) [R.norvegicus]
2843	14606	AI639342	d		ESTs, Highly similar to YS64_HUMAN Hypothetical protein S164 [H.sapiens]
2861	20468	AI639494	m		ESTs, Weakly similar to G01614 zinc finger protein 127 - human [H.sapiens]
2907	21864	H31144	pp		ESTs, Moderately similar to 1914275A non-receptor Tyr kinase [Homo sapiens] [H.sapiens]
2907	20456	H31144	ll, pp		ESTs, Moderately similar to 1914275A non-receptor Tyr kinase [Homo sapiens] [H.sapiens]
2917	17913	H31707	l, x, General, dd, uu		ESTs, Moderately similar to T50621 hypothetical protein DKFZp762O076.1 - human (fragment) [H.sapiens]
2918	4360	H31813	z, General		ESTs, Moderately similar to T14781 hypothetical protein DKFZp586B1621.1 - human (fragment) [H.sapiens]
3010	4224	M31322	ff, mm	sperm membrane protein (YWK-II)	sperm membrane protein (YWK-II)
3010	4225	M31322	nn, uu	sperm membrane protein (YWK-II)	sperm membrane protein (YWK-II)
3020	1586	M57728	oo, pp		Rat general mitochondrial matrix processing protease (MPP) mRNA, 3' end
3135	15174	NM_012756	j, ss	Insulin-like growth factor 2 receptor	Insulin-like growth factor 2 receptor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3403	20583	NM_017306	k, nn		ESTs, Highly similar to D3D2_RAT 3,2-TRANS-ENOYL-COA ISOMERASE, MITOCHONDRIAL PRECURSOR (DODECENOYL-COA DELTA-ISOMERASE) [R.norvegicus]
3579	1867	NM_022510	ee	ribosomal protein L4	ribosomal protein L4
3713	1024	NM_031016	k	muscarinic receptor m2	muscarinic receptor m2
3725	1336	NM_031042	k	general transcription factor IIF, polypeptide 2 (30kD subunit)	general transcription factor IIF, polypeptide 2 (30kD subunit)
3883	1105	NM_031758	nn	somatostatin receptor-like protein	somatostatin receptor-like protein
3998	22919	NM_053556	uu, ww	maternal G10 transcript	maternal G10 transcript
4074	20939	NM_053884	l, m, s, General, bb, qq, uu	ATPase, vacuolar, 14 kD	ATPase, vacuolar, 14 kD
4149	18027	NM_130407	e	UDP glycosyltransferase 1 family, polypeptide A7	UDP glycosyltransferase 1 family, polypeptide A7
4149	18028	NM_130407	e	UDP glycosyltransferase 1 family, polypeptide A7	UDP glycosyltransferase 1 family, polypeptide A7
4183	21703	NM_133525	oo	putative c-Myc-responsive	putative c-Myc-responsive
4205	15655	NM_133621	nn	global ischemia induced protein GIIG15B	global ischemia induced protein GIIG15B
4212	12719	NM_134373	l, uu	Esau	Esau
4221	14697	NM_134419	dd	protein associating with small stress protein PASS1	protein associating with small stress protein PASS1
4234	13563	NM_138530	m, ff	MAWD binding protein	MAWD binding protein
4258	1049	NM_138901	g	phosphatidylinositol glycan, class L	phosphatidylinositol glycan, class L
4266	16176	NM_139087	u	cell growth regulatory with EF-hand domain	cell growth regulatory with EF-hand domain
4280	22595	NM_139253	d	stem cell derived neuronal survival protein precursor	stem cell derived neuronal survival protein precursor
4284	7859	NM_139328	kk	liver regeneration-related protein	liver regeneration-related protein
4294	17277	NM_145082	g		Rattus norvegicus glycine-, glutamate-, thienylcyclohexylpiperidine-binding protein mRNA, complete cds
4297	6731	NM_145096	c		Rattus norvegicus small rec (srec) mRNA, complete cds
4310	6824	NM_147138	ll, ss		Rattus norvegicus SNAP25 interacting protein 30 (Sip30) mRNA, complete cds
4340	24351	S74257	ii, kk, ll, ww		ESTs, Weakly similar to ABD4_MOUSE ATP binding cassette, sub-family D, member 4 (Peroxisomal membrane protein 69) (PMP69) (Peroxisomal membrane protein 1-like) (PXMP1-L) (P70R) [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4382	21654	U53184	f, l, y, General, ee	LPS-induced TNF-alpha factor	LPS-induced TNF-alpha factor
4399	23282	U90725	q, ff, tt	lipoprotein-binding protein	lipoprotein-binding protein
4415	20810	X14181	l		ESTs, Highly similar to R5RT18 ribosomal protein L18a, cytosolic [validated] - rat [R.norvegicus]
4420	7459	X15551	a, j, n, r		ESTs, Highly similar to NBRT apolipoprotein H precursor - rat [R.norvegicus]
4423	23987	X51615	w, gg, hh		ESTs, Highly similar to 1604368A gap junction protein Cx26 [Rattus norvegicus] [R.norvegicus]
4463	4223	X77934	mm	sperm membrane protein (YWK-II)	sperm membrane protein (YWK-II)
73	13683	AA799788	s	HHs:cell division cycle 34	ESTs, Moderately similar to I54552 hypothetical serine proteinase - rat [R.norvegicus]
82	16346	AA799824	a, e, f, s, General, kk, oo	HHs:ATPase, H <sup>+</sup> transporting, lysosomal 42kD, V1 subunit C, isoform 1	ESTs, Highly similar to VATC_MOUSE Vacuolar ATP synthase subunit C (V-ATPase C subunit) (Vacuolar proton pump C subunit) [M.musculus]
107	4832	AA800190	oo	HHs:phosphorylase, glycogen; brain	ESTs, Highly similar to S37300 glycogen phosphorylase (EC 2.4.1.1), brain - rat [R.norvegicus]
1206	3364	AA998097	General	HHs:selenium donor protein	ESTs, Moderately similar to SPS2_MOUSE Selenide,water dikinase 2 (Selenophosphate synthetase 2) (Selenium donor protein 2) [M.musculus]
1715	17506	AI070068	n, kk	HHs:growth arrest and DNA-damage-inducible, beta	ESTs, Weakly similar to 2104282A Gadd45 gene [Rattus norvegicus] [R.norvegicus]
1913	23829	AI103754	h	HHs:UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2	ESTs, Weakly similar to glycoprotein galactosyltransferase beta 1, 4; beta-1,4-GalT; galactosyltransferase 2 beta 1, 4; B-1,4-GalT1; beta-1,4-GalT1 [Mus musculus] [M.musculus]
1919	15050	AI103911	r	HHs:ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	ESTs, Highly similar to A32296 ubiquinol-cytochrome-c reductase (EC 1.10.2.2) Rieske iron-sulfur protein precursor - rat (fragment) [R.norvegicus]
1967	23596	AI105435	uu, vv	HHs:glutaryl-Coenzyme A dehydrogenase	ESTs, Highly similar to GCDH_MOUSE Glutaryl-CoA dehydrogenase, mitochondrial precursor (GCD) [M.musculus]
2090	23152	AI169170	xx	HHs:eukaryotic translation initiation factor 4A, isoform 2	ESTs, Highly similar to S00985 translation initiation factor eIF-4A II - mouse [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2979	13682	L38482	p	HHs:cell division cycle 34	ESTs, Moderately similar to I54552 hypothetical serine proteinase - rat [R.norvegicus]
13	1599	AA686470	General	DNA-damage inducible transcript 3	DNA-damage inducible transcript 3
13	1600	AA686470	pp	DNA-damage inducible transcript 3	DNA-damage inducible transcript 3
65	14250	AA799729	qq, vv	Phosphodiesterase 4B, cAMP-specific (dunce (Drosophila)-homolog phosphodiesterase E4)	ESTs, Phosphodiesterase 4B, cAMP-specific (dunce (Drosophila)-homolog phosphodiesterase E4)
66	18060	AA799735	c, j, q, x	RuvB-like protein 1	RuvB-like protein 1
66	18061	AA799735	dd, oo	RuvB-like protein 1	RuvB-like protein 1
74	1680	AA799792	gg, hh	Carboxyl ester lipase	Carboxyl ester lipase
163	15852	AA800942	gg, hh	Complement component 4	Complement component 4
166	11901	AA801058	l, nn	aldehyde dehydrogenase family 9, subfamily A1	aldehyde dehydrogenase family 9, subfamily A1
216	6054	AA818658	ww	Diphtheria toxin receptor (heparin binding epidermal growth factor - like growth factor)	Diphtheria toxin receptor (heparin binding epidermal growth factor - like growth factor)
217	4230	AA818669	l, ss	RAB7, member RAS oncogene family	RAB7, member RAS oncogene family
234	576	AA819118	vv	S - adenosylmethionine synthetase	S - adenosylmethionine synthetase
236	6018	AA819140	x	carbonic anhydrase 3	carbonic anhydrase 3
252	6288	AA819554	ww	brain-specific angiogenesis inhibitor 1-associated protein 2	brain-specific angiogenesis inhibitor 1-associated protein 2
449	17742	AA866302	ss	4-hydroxyphenylpyruvic acid dioxygenase	4-hydroxyphenylpyruvic acid dioxygenase
455	16333	AA866414	k	Solute carrier family 4, member 1, anion exchange protein 1 (kidney band 3)	Solute carrier family 4, member 1, anion exchange protein 1 (kidney band 3)
484	1190	AA875089	ll	Calpastatin	Calpastatin
549	19321	AA891666	t	melanoma antigen, family D, 1	melanoma antigen, family D, 1
572	21674	AA891828	jj	procollagen, type I, alpha 2	procollagen, type I, alpha 2
624	820	AA892395	a, s, ss, uu	Aldolase B, fructose-biphosphate	Aldolase B, fructose-biphosphate
778	4661	AA899709	e	receptor activity modifying protein 3	receptor activity modifying protein 3
805	23038	AA900881	t, mm	branched chain aminotransferase 1, cytosolic	branched chain aminotransferase 1; cytosolic
835	20711	AA924267	o	Cytochrome P450, subfamily IVB, polypeptide 1	Cytochrome P450, subfamily IVB, polypeptide 1
869	23451	AA925243	j	restin (Reed-Steinberg cell-expressed intermediate filament-associated protein)	restin (Reed-Steinberg cell-expressed intermediate filament-associated protein)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1083	23700	AA956382	ff	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A 1, peroxisomal	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A 1, peroxisomal
1194	20712	AA997806	b, uu	Cytochrome P450, subfamily IVB, polypeptide 1	Cytochrome P450, subfamily IVB, polypeptide 1
1241	3081	AA999171	General	Signal transducer and activator of transcription 1	Signal transducer and activator of transcription 1
1252	22567	AB017544	u, kk	peroxisomal membrane anchor protein	peroxisomal membrane anchor protein
1256	19702	AF008587	p	hemochromatosis	hemochromatosis
1271	22602	AF044574	o	putative peroxisomal 2,4-dienoyl-CoA reductase	putative peroxisomal 2,4-dienoyl-CoA reductase
1271	22603	AF044574	o, kk	putative peroxisomal 2,4-dienoyl-CoA reductase	putative peroxisomal 2,4-dienoyl-CoA reductase
1299	10108	AI007857	b, General, dd	HGF-regulated tyrosine kinase substrate	HGF-regulated tyrosine kinase substrate
1376	17524	AI010568	ss	Growth hormone receptor	Growth hormone receptor
1428	24411	AI012577	h, z	Insulin-like growth factor II (somatomedin A)	Insulin-like growth factor II (somatomedin A)
1454	1332	AI013222	mm	Platelet-derived growth factor A chain	ESTs, Platelet-derived growth factor A chain
1496	17957	AI028975	d	Adaptor protein complex AP-1, beta 1 subunit	Adaptor protein complex AP-1, beta 1 subunit
1566	5648	AI044035	ss	protein phosphatase 4, regulatory subunit 1	protein phosphatase 4, regulatory subunit 1
1626	24336	AI045621	r	Myristoylated alanine-rich protein kinase C substrate	Myristoylated alanine-rich protein kinase C substrate
1666	19835	AI058964	ll	transporter protein; system N1 Na <sup>+</sup> and H <sup>+</sup> -coupled glutamine transporter	transporter protein; system N1 Na <sup>+</sup> and H <sup>+</sup> -coupled glutamine transporter
1902	18679	AI103496	bb	GDP-dissociation inhibitor 1	GDP-dissociation inhibitor 1
2105	4091	AI169417	l, rr, tt	Phosphoglycerate mutase 1	Phosphoglycerate mutase 1
2164	23465	AI171243	ww	erythrocyte protein band 4.1-like 3	erythrocyte protein band 4.1-like 3
2168	14960	AI171319	gg, hh	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	ESTs, Highly similar to SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1; integrase interactor 1 [Mus musculus] [M.musculus], guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1
2219	7579	AI172453	v	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10
2264	10182	AI176185	tt	FBJ murine osteosarcoma viral (v-fos) oncogene homolog	FBJ murine osteosarcoma viral (v-fos) oncogene homolog
2299	16477	AI176701	jj	Fatty acid binding protein 3, muscle and heart	Fatty acid binding protein 3, muscle and heart



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2306	17235	AI176815	n	Tissue inhibitor of metalloproteinase 3	Tissue inhibitor of metalloproteinase 3
2330	14989	AI177366	b	Integrin, beta 1	Integrin, beta 1
2347	13558	AI177901	k	Adrenergic receptor beta 1	Adrenergic receptor beta 1
2348	15315	AI177911	x	calpactin I heavy chain	calpactin I heavy chain
2427	16081	AI179610	s, rr	Heme oxygenase	Heme oxygenase
2537	4280	AI230247	c, v, General	selenoprotein P, plasma, 1	selenoprotein P, plasma, 1
2546	1378	AI230602	m	Retinoblastoma-related gene	Retinoblastoma-related gene
2561	18778	AI230982	ww	Eph receptor B2 (ELK-related protein tyrosine kinase)	Eph receptor B2 (ELK-related protein tyrosine kinase)
2570	24326	AI231292	a, l, General, cc, qq	Cystatin C (cysteine proteinase inhibitor)	Cystatin C (cysteine proteinase inhibitor)
2570	24327	AI231292	h, l, rr	Cystatin C (cysteine proteinase inhibitor)	Cystatin C (cysteine proteinase inhibitor)
2571	19288	AI231305	e	Platelet-derived growth factor receptor alpha	Platelet-derived growth factor receptor alpha
2647	17907	AI233224	t	Epidermal growth factor receptor, formerly avian erythroblastic leukemia viral (v-erbB) oncogene homolog (ErbB1)	Epidermal growth factor receptor, formerly avian erythroblastic leukemia viral (v-erbB) oncogene homolog (ErbB1)
2706	19995	AI235320	p, t	mitochondrial aconitase (nuclear aco2 gene)	mitochondrial aconitase (nuclear aco2 gene)
2712	2241	AI235500	ss	cofilin 1, non-muscle	cofilin 1, non-muscle
2880	18686	D00729	o, ff, jj	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	Rat mRNA for delta3, delta2-enoyl-CoA isomerase, dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
2889	536	D25290	g	Cadherin 6 (K-cadherin)	Cadherin 6 (K-cadherin)
2890	16610	D28557	n, General, oo, rr	cold shock domain protein A	cold shock domain protein A
2897	935	D49434	bb, ww	Arylsulfatase B (MPS VI)	Arylsulfatase B (MPS VI)
2946	20429	J05035	t, xx	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
2946	20430	J05035	bb, qq	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
2947	1247	J05181	vv	Glutamylcysteine gamma synthetase light chain	Glutamylcysteine gamma synthetase light chain
2949	20549	K01701	y	Oxytocin/neurophysin	Oxytocin/neurophysin
2956	20865	L00117	g, w, rr	Elastase 1	Elastase 1
2957	5616	L00191	j	Fibronectin 1	Fibronectin 1
2959	24425	L08812	k	transcription factor EC	transcription factor EC

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2974	15073	L22761	ww	GATA-binding protein 4	GATA-binding protein 4
2975	12058	L25387	t	phosphofructokinase, platelet	ESTs, Highly similar to A53047 6-phosphofructokinase (EC 2.7.1.11) - rat [R.norvegicus]
2980	6406	L38615	v	Glutathione synthetase gene	Glutathione synthetase gene
2985	21097	M12112	s	Angiotensinogen	Angiotensinogen
2991	20714	M14972	o, r	Cytochrome P450, subfamily IVB, polypeptide 1	Cytochrome P450, subfamily IVB, polypeptide 1
2995	24407	M17960	v	Insulin-like growth factor II (somatomedin A)	Insulin-like growth factor II (somatomedin A)
3004	6626	M24353	l, k, General, ll	mannosidase 2, alpha 1	ESTs, Highly similar to M2A1_RAT Alpha-mannosidase II (Mannosyl-oligosaccharide 1,3-1,6-alpha-mannosidase) (MAN II) (Golgi alpha-mannosidase II) (Mannosidase alpha class 2A member 1) [R.norvegicus]
3005	668	M25823	jj	Protein tyrosine phosphatase, receptor-type, c polypeptide (antigen Cd45, leukocyte-common antigen/T200 glycoprotein) also RT7	Protein tyrosine phosphatase, receptor-type, c polypeptide (antigen Cd45, leukocyte-common antigen/T200 glycoprotein) also RT7
3007	16930	M27440	h, o, ss, vv	Apolipoprotein B	Apolipoprotein B
3011	23610	M32754	l	Inhibin, alpha	Inhibin, alpha
3019	20713	M57718	o, r, xx	Cytochrome P450, subfamily IVB, polypeptide 1	Cytochrome P450, subfamily IVB, polypeptide 1
3022	2465	M59814	ee, ww	Eph receptor B2 (ELK-related protein tyrosine kinase)	Eph receptor B2 (ELK-related protein tyrosine kinase)
3023	457	M60666	c, nn	Tropomyosin 1 (alpha)	Tropomyosin 1 (alpha)
3024	24253	M61142	s	Thimet oligopeptidase	Thimet oligopeptidase
3043	17991	M96626	g	ATPase, Ca++ transporting, plasma membrane 3	ATPase, Ca++ transporting, plasma membrane 3
3044	1678	M96674	l, General, nn, pp	glucagon receptor	glucagon receptor
3046	23698	NM_012489	o, xx	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A 1, peroxisomal	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A 1, peroxisomal
3046	23699	NM_012489	o, u, v, ss	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A 1, peroxisomal	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A 1, peroxisomal
3047	265	NM_012494	gg, hh, jj	Angiotensin receptor 2	Angiotensin receptor 2
3048	7062	NM_012495	t, bb, mm	Aldolase A, fructose-bisphosphate	Aldolase A, fructose-bisphosphate
3048	7064	NM_012495	s	Aldolase A, fructose-bisphosphate	Aldolase A, fructose-bisphosphate
3049	1655	NM_012497	n	Aldolase C, fructose-bisphosphate	Aldolase C, fructose-bisphosphate

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3050	1421	NM_012500	f	N-acylaminoacyl-peptide hydrolase	N-acylaminoacyl-peptide hydrolase
3051	17787	NM_012501	ee	Apolipoprotein C-III	Apolipoprotein C-III
3053	15675	NM_012504	General	ATPase, Na+K+ transporting, alpha 1 polypeptide	ATPase, Na+K+ transporting, alpha 1 polypeptide
3053	15677	NM_012504	General, mm	ATPase, Na+K+ transporting, alpha 1 polypeptide	ATPase, Na+K+ transporting, alpha 1 polypeptide
3054	855	NM_012507	ll	ATPase, Na+K+ transporting, beta polypeptide 2	ATPase, Na+K+ transporting, beta polypeptide 2
3056	7427	NM_012515	ll	Benzodiazepin receptor (peripheral)	Benzodiazepin receptor (peripheral)
3058	20518	NM_012518	e, nn	Calmodulin III	Calmodulin III
3059	15740	NM_012520	p	Catalase	Catalase
3059	15741	NM_012520	o, General, bb	Catalase	Catalase
3060	24865	NM_012521	ss	Calcium-binding protein, intestinal, vitamin D-dependent (9-kDa CaBP)	Calcium-binding protein, intestinal, vitamin D-dependent (9-kDa CaBP)
3061	11115	NM_012531	l, nn	Catecholamine-O-methyltransferase	Catecholamine-O-methyltransferase
3061	11116	NM_012531	nn	Catecholamine-O-methyltransferase	Catecholamine-O-methyltransferase
3063	20357	NM_012534	p, bb	Crystallin, alpha polypeptide A	Crystallin, alpha polypeptide A
3064	488	NM_012540	j, w	Cytochrome P450, subfamily I (aromatic compound-inducible), member A1 (C6, form c)	Cytochrome P450, subfamily I (aromatic compound-inducible), member A1 (C6, form c)
3064	489	NM_012540	e, tt	Cytochrome P450, subfamily I (aromatic compound-inducible), member A1 (C6, form c)	Cytochrome P450, subfamily I (aromatic compound-inducible), member A1 (C6, form c)
3064	20705	NM_012540	j	Cytochrome P450, subfamily I (aromatic compound-inducible), member A2 (Q42, form d)	Cytochrome P450, subfamily I (aromatic compound-inducible), member A2 (Q42, form d)
3065	20703	NM_012541	xx	Cytochrome P450, subfamily I (aromatic compound-inducible), member A2 (Q42, form d)	Cytochrome P450, subfamily I (aromatic compound-inducible), member A2 (Q42, form d)
3066	225	NM_012544	j	Angiotensin I-converting enzyme (Dipeptidyl carboxypeptidase 1)	Angiotensin I-converting enzyme (Dipeptidyl carboxypeptidase 1)
3067	23868	NM_012551	dd, oo, tt	Early growth response 1	Early growth response 1
3067	23869	NM_012551	oo, tt	Early growth response 1	Early growth response 1
3067	23871	NM_012551	tt, vv	Early growth response 1	Early growth response 1
3067	23872	NM_012551	dd, tt	Early growth response 1	Early growth response 1
3069	17676	NM_012556	g, j	Fatty acid binding protein 1, liver	Fatty acid binding protein 1, liver

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3072	11732	NM_012561	p	Follistatin	Follistatin
3074	20717	NM_012569	c	Glutaminase	Glutaminase
3075	4573	NM_012570	l, General	Glutamate dehydrogenase	Glutamate dehydrogenase
3075	4574	NM_012570	h, l, p, General, dd, ii, uu	Glutamate dehydrogenase	Glutamate dehydrogenase
3077	85	NM_012572	c	Glutamate receptor, ionotropic, kainate 4	Glutamate receptor, ionotropic, kainate 4
3079	16024	NM_012578	m	Histone H1-0	Histone H1-0
3079	16025	NM_012578	m, ww	Histone H1-0	Histone H1-0
3079	16026	NM_012578	m, ww	Histone H1-0	Histone H1-0
3081	20313	NM_012585	k	5-Hydroxytryptamine (serotonin) receptor 1A	5-Hydroxytryptamine (serotonin) receptor 1A
3082	21162	NM_012591	d, u	Interferon regulatory factor 1	Interferon regulatory factor 1
3083	4449	NM_012592	z, General	Isovaleryl Coenzyme A dehydrogenase	Isovaleryl Coenzyme A dehydrogenase
3083	4450	NM_012592	p	Isovaleryl Coenzyme A dehydrogenase	Isovaleryl Coenzyme A dehydrogenase
3085	2505	NM_012597	w	Lipase, hepatic	Lipase, hepatic
3088	2628	NM_012603	f, l, y, z, General	Avian myelocytomatosis viral (v-myc) oncogene homolog	Avian myelocytomatosis viral (v-myc) oncogene homolog
3088	2629	NM_012603	f, l, l, z, General, nn	Avian myelocytomatosis viral (v-myc) oncogene homolog	Avian myelocytomatosis viral (v-myc) oncogene homolog
3089	16850	NM_012608	k	Membrane metallo-endopeptidase (neutral endopeptidase/enkephalinase)	Membrane metallo-endopeptidase (neutral endopeptidase/enkephalinase)
3091	24506	NM_012614	d, v	Neuropeptide Y	Neuropeptide Y
3092	23522	NM_012615	c, g, l, m, n, w, General, kk	Ornithine decarboxylase	Ornithine decarboxylase
3092	23523	NM_012615	l, v	Ornithine decarboxylase	Ornithine decarboxylase
3093	6055	NM_012619	b, l, General, uu	Phenylalanine hydroxylase	Phenylalanine hydroxylase
3095	24568	NM_012630	g	Prolactin receptor	Prolactin receptor
3096	18553	NM_012631	b, c, qq, vv	Prion protein, structural	Prion protein, structural
3098	20798	NM_012639	ll	Murine leukemia viral (v-raf-1) oncogene homolog 1 (3611-MSV)	Murine leukemia viral (v-raf-1) oncogene homolog 1 (3611-MSV)
3098	20799	NM_012639	p	Murine leukemia viral (v-raf-1) oncogene homolog 1 (3611-MSV)	Murine leukemia viral (v-raf-1) oncogene homolog 1 (3611-MSV)
3100	16220	NM_012656	c, cc	Secreted acidic cystein-rich glycoprotein (osteonectin)	Secreted acidic cystein-rich glycoprotein (osteonectin)
3103	24825	NM_012668	x, ee, ss	Tyrosine aminotransferase	Tyrosine aminotransferase

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3104	24427	NM_012669	pp	Transcription factor 1, hepatic; LF-B1, hepatic nuclear factor (HNF1): albumin proximal factor, also TCF1	Transcription factor 1, hepatic; LF-B1, hepatic nuclear factor (HNF1): albumin proximal factor, also TCF1
3106	17117	NM_012673	w	Thymus cell surface antigen	Thymus cell surface antigen
3110	4185	NM_012681	ee, gg, hh	Transthyretin (prealbumin, amyloidosis type I)	Transthyretin (prealbumin, amyloidosis type I)
3110	4186	NM_012681	n, ee	Transthyretin (prealbumin, amyloidosis type I)	Transthyretin (prealbumin, amyloidosis type I)
3111	5850	NM_012687	g	Thromboxane synthase 1	Thromboxane synthase 1
3112	24453	NM_012690	a, s	ATP-binding cassette, sub-family B (MDR/TAP), member 4 (P-glycoprotein 3/ multidrug resistance 2	ATP-binding cassette, sub-family B (MDR/TAP), member 4 (P-glycoprotein 3/ multidrug resistance 2
3116	1850	NM_012696	a	T-kininogen, see also D11Elh1 and D11Mit8	T-kininogen, see also D11Elh1 and D11Mit8
3116	1854	NM_012696	a	T-kininogen, see also D11Elh1 and D11Mit8	T-kininogen, see also D11Elh1 and D11Mit8
3120	4002	NM_012708	p, General, nn	Low molecular mass polypeptide 2	Low molecular mass polypeptide 2
3120	4003	NM_012708	p	Low molecular mass polypeptide 2	Low molecular mass polypeptide 2
3120	4004	NM_012708	nn	Low molecular mass polypeptide 2	Low molecular mass polypeptide 2
3120	4005	NM_012708	General	Low molecular mass polypeptide 2	Low molecular mass polypeptide 2
3122	322	NM_012715	p, t, ff, ii, pp, xx	Adrenomedullin	Adrenomedullin
3123	1632	NM_012717	d, y	Calcitonin receptor-like receptor	Calcitonin receptor-like receptor
3127	1372	NM_012734	xx	Hexokinase 1	Hexokinase 1
3137	1348	NM_012776	m	adrenergic receptor kinase, beta 1	adrenergic receptor kinase, beta 1
3137	1349	NM_012776	ii, rr	adrenergic receptor kinase, beta 1	adrenergic receptor kinase, beta 1
3139	11938	NM_012783	x	Basigin (Ox47 antigen or CE-9) (EMMPRIN in human) (neurothelin, HT7 or 5A11 in avian)	Basigin (Ox47 antigen or CE-9) (EMMPRIN in human) (neurothelin, HT7 or 5A11 in avian)
3142	16947	NM_012793	a, b, e, m, s, z, General, qq, uu, vv	Guanidinoacetate methyltransferase	Guanidinoacetate methyltransferase
3142	16948	NM_012793	qq, uu	Guanidinoacetate methyltransferase	Guanidinoacetate methyltransferase
3143	961	NM_012796	p	glutathione S-transferase, theta 2	glutathione S-transferase, theta 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name		Unigene Sequence Cluster Title	
3147	15032	NM_012816	t	alpha-methylacyl-CoA racemase		alpha-methylacyl-CoA racemase	
3148	326	NM_012818	ss	Arylalkylamine N - acetyltransferase (Serotonin N - acetyltransferase)		Arylalkylamine N - acetyltransferase (Serotonin N - acetyltransferase)	
3149	6780	NM_012819	n	Acyl Coenzyme A dehydrogenase, long chain		Acyl Coenzyme A dehydrogenase, long chain	
3151	20586	NM_012826	a, m, vv	Zn - alpha2 - glycoprotein		Zn - alpha2 - glycoprotein	
3151	20587	NM_012826	v, vv	Zn - alpha2 - glycoprotein		Zn - alpha2 - glycoprotein	
3152	15035	NM_012836	nn	Carboxypeptidase D precursor		Carboxypeptidase D precursor	
3153	2853	NM_012838	j, l, qq	Cystatin beta		Cystatin beta	
3153	2854	NM_012838	j, l, General, cc, rr	Cystatin beta		Cystatin beta	
3153	2855	NM_012838	l, cc	Cystatin beta		Cystatin beta	
3155	338	NM_012843	t, ff, mm	Epithelial membrane protein 1		Epithelial membrane protein 1	
3156	17541	NM_012844	l, s, General, ff, ll, ww	Epoxide hydrolase 1 (microsomal xenobiotic hydrolase)		Epoxide hydrolase 1 (microsomal xenobiotic hydrolase)	
3157	644	NM_012846	kk	Fibroblast growth factor 1 (heparin binding)		Fibroblast growth factor 1 (heparin binding)	
3158	20819	NM_012847	vv	Farnesyltransferase, subunit alpha		Farnesyltransferase, subunit alpha	
3165	15872	NM_012879	bb	Solute carrier family 2 A2 (glucose transporter, type 2)		Solute carrier family 2 A2 (glucose transporter, type 2)	
3166	16301	NM_012883	g, w, rr	Estrogen sulfotransferase		Estrogen sulfotransferase	
3166	4282	NM_012883	rr	Estrogen sulfotransferase, selenoprotein P, plasma, 1		Estrogen sulfotransferase, selenoprotein P, plasma, 1	
3167	16870	NM_012887	v	Thymopoietin (lamina associated polypeptide 2)		Thymopoietin (lamina associated polypeptide 2)	
3167	16871	NM_012887	r, z, ee, oo	Thymopoietin (lamina associated polypeptide 2)		Thymopoietin (lamina associated polypeptide 2)	
3167	16872	NM_012887	pp	Thymopoietin (lamina associated polypeptide 2)		Thymopoietin (lamina associated polypeptide 2)	
3169	16708	NM_012895	a, b, h, w	Adenosin kinase		Adenosin kinase	
3171	16273	NM_012898	k	alpha-2-HS-glycoprotein		alpha-2-HS-glycoprotein	
3171	16274	NM_012898	r	alpha-2-HS-glycoprotein		alpha-2-HS-glycoprotein	
3171	16275	NM_012898	r, ee	alpha-2-HS-glycoprotein		alpha-2-HS-glycoprotein	
3172	18564	NM_012899	k, w	aminolevulinate, delta-, dehydratase		aminolevulinate, delta-, dehydratase	
3173	7897	NM_012901	u	Alpha-1 microglobulin/bikunin		Alpha-1 microglobulin/bikunin	
3173	7898	NM_012901	e, r	Alpha-1 microglobulin/bikunin		Alpha-1 microglobulin/bikunin	
3173	7899	NM_012901	e	Alpha-1 microglobulin/bikunin		Alpha-1 microglobulin/bikunin	
3176	20590	NM_012913	n, kk	ATPase, Na+K+ transporting, beta polypeptide 3		ATPase, Na+K+ transporting, beta polypeptide 3	
3177	24783	NM_012914	p	ATPase, Ca++ transporting, ubiquitous		ATPase, Ca++ transporting, ubiquitous	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3179	776	NM_012922	u	Caspase 3, apoptosis related cysteine protease (ICE-like cysteine protease)	Caspase 3, apoptosis related cysteine protease (ICE-like cysteine protease)
3179	777	NM_012922	z	Caspase 3, apoptosis related cysteine protease (ICE-like cysteine protease)	Caspase 3, apoptosis related cysteine protease (ICE-like cysteine protease)
3182	1977	NM_012930	o, p, y, ff, xx	Carnitine palmitoyltransferase 2	Carnitine palmitoyltransferase 2
3186	190	NM_012940	e	Cytochrome P450 1b1	Cytochrome P450 1b1
3186	191	NM_012940	e	Cytochrome P450 1b1	Cytochrome P450 1b1
3186	192	NM_012940	e	Cytochrome P450 1b1	Cytochrome P450 1b1
3186	193	NM_012940	e, v	Cytochrome P450 1b1	Cytochrome P450 1b1
3187	20928	NM_012941	ee	Cytochrom P450 Lanosterol 14 alpha-demethylase	Cytochrom P450 Lanosterol 14 alpha-demethylase
3187	20929	NM_012941	jj	Cytochrom P450 Lanosterol 14 alpha-demethylase	Cytochrom P450 Lanosterol 14 alpha-demethylase
3187	20931	NM_012941	uu	Cytochrom P450 Lanosterol 14 alpha-demethylase	Cytochrom P450 Lanosterol 14 alpha-demethylase
3189	1285	NM_012948	r, x	Emerin	Emerin
3190	1813	NM_012953	l, p, y, z, ee	Fos-like antigen 1	Fos-like antigen 1
3192	5034	NM_012966	v	Heat shock 10 kD protein 1 (chaperonin 10)	Heat shock 10 kD protein 1 (chaperonin 10)
3193	2554	NM_012967	vv	Intercellular adhesion molecule 1	Intercellular adhesion molecule 1
3193	2555	NM_012967	vv	Intercellular adhesion molecule 1	Intercellular adhesion molecule 1
3195	24528	NM_012973	g	Potassium (K+) channel protein, slowly activating (Isk)	Potassium (K+) channel protein, slowly activating (Isk)
3200	24492	NM_012987	jj	Nestin	Nestin
3201	764	NM_012988	c, p, r, z, General	Nuclear Factor 1A	Nuclear Factor 1A
3201	765	NM_012988	h, q, z, General	Nuclear Factor 1A	Nuclear Factor 1A
3202	16417	NM_012991	l, x, General, vv	Nucleoprotein 50kD	Nucleoprotein 50kD
3203	17393	NM_012992	b, l, j, General, qq	Nucleoplasmin-related protein (Nuclear protein B23)	Nucleoplasmin-related protein (Nuclear protein B23)
3203	17394	NM_012992	General	Nucleoplasmin-related protein (Nuclear protein B23)	Nucleoplasmin-related protein (Nuclear protein B23)
3206	1640	NM_013000	pp	Peptidylglycine alpha-amidating monooxygenase	Peptidylglycine alpha-amidating monooxygenase
3206	1649	NM_013000	n	Peptidylglycine alpha-amidating monooxygenase	Peptidylglycine alpha-amidating monooxygenase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3208	25279	NM_013011	bb	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
3208	3405	NM_013011	ss	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
3210	11905	NM_013016	s, x	Protein tyrosine phosphatase, non-receptor type substrate 1 (SHP substrate 1)	Protein tyrosine phosphatase, non-receptor type substrate 1 (SHP substrate 1)
3212	1588	NM_013026	j, t, mm, ww	Syndecan 1	Syndecan 1
3212	1589	NM_013026	mm	Syndecan 1	Syndecan 1
3213	17894	NM_013027	v	Selenoprotein W muscle 1	Selenoprotein W muscle 1
3214	1734	NM_013028	oo	Short stature homeobox 2	Short stature homeobox 2
3216	313	NM_013033	g	Solute carrier family 5, member alpha 1 (Na <sup>+</sup> /glucose cotransporter)	Solute carrier family 5, member alpha 1 (Na <sup>+</sup> /glucose cotransporter)
3217	24809	NM_013036	g	Somatostatin receptor subtype 4 Rattus norvegicus Sprague-Dawley major hippocampal somatostatin receptor (SSTR4) mRNA	Somatostatin receptor subtype 4 Rattus norvegicus Sprague-Dawley major hippocampal somatostatin receptor (SSTR4) mRNA
3218	115	NM_013037	u	Interleukin 1 receptor-like 1 (Fos responsive gene 1)	Interleukin 1 receptor-like 1 (Fos-responsive gene 1)
3221	12013	NM_013050	l, nn	Ubiquitin conjugating enzyme E2I	Ubiquitin conjugating enzyme E2I
3221	12014	NM_013050	l, j, y	Ubiquitin conjugating enzyme E2I	Ubiquitin conjugating enzyme E2I
3222	16683	NM_013052	r	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
3222	16684	NM_013052	pp	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
3224	12370	NM_013055	u	Mitogen activated protein kinase 12 (Zipper (leucine) protein kinase)	Mitogen activated protein kinase 12 (Zipper (leucine) protein kinase)
3232	13282	NM_013078	n, jj	Ornithine carbamoyltransferase	Ornithine carbamoyltransferase
3232	13283	NM_013078	h, l, m, s, General, cc, uu	Ornithine carbamoyltransferase	Ornithine carbamoyltransferase
3239	15296	NM_013102	k	FK506 binding protein 2 (13 kDa), FK506-binding protein 1 (12kD)	FK506-binding protein 1 (12kD)



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3240	1885	NM_013103	l, u, z	Transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor	Transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor
3242	24195	NM_013111	f, q	Solute carrier family 7 member A1 (amino acid transporter cationic 1)	Solute carrier family 7 member A1 (amino acid transporter cationic 1)
3242	24196	NM_013111	f, l, q, z, General, dd	Solute carrier family 7 member A1 (amino acid transporter cationic 1)	Solute carrier family 7 member A1 (amino acid transporter cationic 1)
3246	14300	NM_013129	pp	Interleukin 15	Interleukin 15
3248	650	NM_013134	vv	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	3-hydroxy-3-methylglutaryl-Coenzyme A reductase
3248	651	NM_013134	t	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	3-hydroxy-3-methylglutaryl-Coenzyme A reductase
3248	652	NM_013134	n, t	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	3-hydroxy-3-methylglutaryl-Coenzyme A reductase
3250	1712	NM_013138	nn	Inositol 1, 4, 5-triphosphate receptor 3	Inositol 1, 4, 5-triphosphate receptor 3
3251	5837	NM_013143	s	Meprin 1 alpha	Meprin 1 alpha
3254	21683	NM_013154	d, g	CCAAT/enhancerbinding, protein (C/EBP) delta	CCAAT/enhancerbinding, protein (C/EBP) delta
3256	3430	NM_013156	g, General, oo, pp, uu	Cathepsin L	Cathepsin L
3256	3431	NM_013156	z, cc	Cathepsin L	Cathepsin L
3260	447	NM_013165	tt	Cholecystokinin B receptor	Cholecystokinin B receptor
3261	24750	NM_013167	cc	Uncoupling protein 3, mitochondrial	Uncoupling protein 3, mitochondrial
3273	20854	NM_013200	j, nn	Carnitine palmitoyltransferase 1 beta, muscle isoform	Carnitine palmitoyltransferase 1 beta, muscle isoform
3273	20856	NM_013200	o, jj	Carnitine palmitoyltransferase 1 beta, muscle isoform	Carnitine palmitoyltransferase 1 beta, muscle isoform
3275	23361	NM_013216	r	Ras homolog enriched in brain	Ras homolog enriched in brain
3282	21078	NM_016986	l, o, ss	Acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight-chain	Acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight-chain
3283	15612	NM_016987	ee	ATP citrate lyase	ATP citrate lyase
3283	15613	NM_016987	ii, ll, ww	ATP citrate lyase	ATP citrate lyase
3285	24868	NM_016992	nn	Arginine vasopressin (Diabetes insipidus)	Arginine vasopressin (Diabetes insipidus)
3285	24869	NM_016992	g	Arginine vasopressin (Diabetes insipidus)	Arginine vasopressin (Diabetes insipidus)
3290	15620	NM_017005	p	Fumarate hydratase	Fumarate hydratase
3291	8417	NM_017008	l	Glyceraldehyde-3-phosphate dehydrogenase	Glyceraldehyde-3-phosphate dehydrogenase
3294	17815	NM_017015	p, r, w, z	Glucuronidase, beta	Glucuronidase, beta
3295	649	NM_017017	cc	Hepatocyte growth factor (scatter factor)	Hepatocyte growth factor (scatter factor)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3298	11836	NM_017023	g	Potassium inwardly-rectifying channel, subfamily J	Potassium inwardly-rectifying channel, subfamily J
3299	670	NM_017024	a, m, v, cc, uu, vv	Lecithin-cholesterol acyltransferase	Lecithin-cholesterol acyltransferase
3301	4500	NM_017037	m, General, ii, qq, uu, vv	Peripheral myelin protein	Peripheral myelin protein
3302	3202	NM_017039	t	Protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	Protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform
3302	3203	NM_017039	oo	Protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	Protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform
3303	24697	NM_017048	rr	Solute carrier family 4, member 2, anion exchange protein 2	Solute carrier family 4, member 2, anion exchange protein 2
3304	20876	NM_017050	k, tt	Superoxide dismutase 1, soluble	Superoxide dismutase 1, soluble
3305	1877	NM_017052	w	Sorbitol dehydrogenase	Sorbitol dehydrogenase
3309	6653	NM_017068	tt	Lysosomal-associated membrane protein 2	Lysosomal-associated membrane protein 2
3310	20649	NM_017072	b, General, kk, vv	Carboamyl-phosphate synthetase 1	Carboamyl-phosphate synthetase 1
3310	20650	NM_017072	b, c, General, cc, kk, uu, vv	Carboamyl-phosphate synthetase 1	Carboamyl-phosphate synthetase 1
3312	18957	NM_017075	o, xx	Acetyl-Co A acetyltransferase 1, mitochondrial	Acetyl-Co A acetyltransferase 1, mitochondrial
3312	18958	NM_017075	o, jj	Acetyl-Co A acetyltransferase 1, mitochondrial	Acetyl-Co A acetyltransferase 1, mitochondrial
3317	1550	NM_017084	uu	Glycine methyltransferase	Glycine methyltransferase
3317	1551	NM_017084	uu	Glycine methyltransferase	Glycine methyltransferase
3317	1552	NM_017084	g, uu	Glycine methyltransferase	Glycine methyltransferase
3318	1383	NM_017088	General	GDP-dissociation inhibitor 1	GDP-dissociation inhibitor 1
3320	6013	NM_017096	e, w, rr, vv	C-reactive protein	C-reactive protein
3324	20745	NM_017113	a, k, l, cc, tt, uu	granulin	granulin
3324	20746	NM_017113	a, j, l, cc, ss, uu, vv	granulin	granulin
3325	21538	NM_017116	gg, hh	calpain 2	calpain 2
3327	21663	NM_017126	l, pp	ferredoxin 1	ferredoxin 1
3328	1305	NM_017127	oo	Choline kinase	Choline kinase
3328	1306	NM_017127	f, l, General, kk, qq, vv	Choline kinase	Choline kinase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3330	24693	NM_017134	a, b, l, General, cc	arginase 1, liver	arginase 1, liver
3331	16681	NM_017136	r, w, jj	squalene epoxidase	squalene epoxidase
3331	16682	NM_017136	t, mm	squalene epoxidase	squalene epoxidase
3332	24885	NM_017138	q, ll	laminin receptor 1	laminin receptor 1
3332	24886	NM_017138	l, ll	laminin receptor 1	laminin receptor 1
3333	492	NM_017140	l	dopamine receptor 3	dopamine receptor 3
3334	24105	NM_017141	a	DNA polymerase beta	DNA polymerase beta
3334	24107	NM_017141	d, g	DNA polymerase beta	DNA polymerase beta
3337	15364	NM_017147	j	cofilin 1, non-muscle	cofilin 1, non-muscle
3339	16953	NM_017151	h, ll	ribosomal protein S15	ribosomal protein S15
3339	16954	NM_017151	bb, gg, hh	ribosomal protein S15	ribosomal protein S15
3339	16955	NM_017151	e	ribosomal protein S15	ribosomal protein S15
3340	21643	NM_017152	u, General, ee, ll	ribosomal protein S17	ribosomal protein S17
3341	1694	NM_017153	h, z, General, ee	ribosomal protein S3a	ribosomal protein S3a
3344	70	NM_017159	b, c, y	histidine ammonia lyase	histidine ammonia lyase
3345	17105	NM_017160	ee	ribosomal protein S6	ribosomal protein S6
3346	595	NM_017161	bb, mm	Adenosine A2b receptor	Adenosine A2b receptor
3356	24670	NM_017189	a, n	asialoglycoprotein receptor 2	asialoglycoprotein receptor 2
3359	20779	NM_017201	u	S-adenosylhomocysteine hydrolase	S-adenosylhomocysteine hydrolase
3360	14694	NM_017202	ff	cytochrome c oxidase, subunit IVa	cytochrome c oxidase, subunit IVa
3363	1703	NM_017210	mm	deiodinase, iodothyronine type III	deiodinase, iodothyronine type III
3363	1704	NM_017210	mm, xx	deiodinase, iodothyronine type III	deiodinase, iodothyronine type III
3365	317	NM_017218	h, General, bb, pp	avian erythroblastosis oncogene B 3	avian erythroblastosis oncogene B 3
3368	18147	NM_017226	cc	peptidyl arginine deiminase, type II	peptidyl arginine deiminase, type II
3369	442	NM_017229	y	phosphodiesterase 3B, cGMP-inhibited	phosphodiesterase 3B, cGMP-inhibited
3370	20192	NM_017232	s	prostaglandin-endoperoxide synthase 2	prostaglandin-endoperoxide synthase 2
3370	20193	NM_017232	qq, vv	prostaglandin-endoperoxide synthase 2	prostaglandin-endoperoxide synthase 2
3371	17740	NM_017233	ss	4-hydroxyphenylpyruvic acid dioxygenase	4-hydroxyphenylpyruvic acid dioxygenase
3373	15598	NM_017236	rr	phosphatidylethanolamine binding protein	phosphatidylethanolamine binding protein
3376	24582	NM_017243	kk, pp	phosphoribosyl pyrophosphate synthetase 1	phosphoribosyl pyrophosphate synthetase 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3378	1418	NM_017246	u, cc	mitogen activated protein kinase kinase 5	mitogen activated protein kinase kinase 5
3380	614	NM_017251	General, rr, uu	gap junction membrane channel protein beta 1	gap junction membrane channel protein beta 1
3381	23037	NM_017253	t, mm	branched chain aminotransferase 1, cytosolic	branched chain aminotransferase 1, cytosolic
3382	1496	NM_017255	qq, vv	purinergic receptor P2Y, G-protein coupled 2	purinergic receptor P2Y, G-protein coupled 2
3384	15300	NM_017259	n, p, rr	Early induced gene, B-cell translocation gene 2	Early induced gene, B-cell translocation gene 2
3384	15301	NM_017259	n, p, ss, tt	Early induced gene, B-cell translocation gene 2	Early induced gene, B-cell translocation gene 2
3384	15299	NM_017259	p	Early induced gene, B-cell translocation gene 2	Early induced gene, B-cell translocation gene 2
3385	15224	NM_017264	f	protease (prosome, macropain) 28 subunit, alpha	protease (prosome, macropain) 28 subunit, alpha
3386	20600	NM_017268	q, w, jj	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1
3386	20601	NM_017268	q, w, jj	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1
3387	570	NM_017271	a, l, v, General, dd, oo	nuclear distribution gene C homolog (Aspergillus)	nuclear distribution gene C homolog (Aspergillus)
3390	17959	NM_017277	w	Adaptor protein complex AP-1, beta 1 subunit	Adaptor protein complex AP-1, beta 1 subunit
3391	15141	NM_017278	gg, hh	proteasome (prosome, macropain) subunit, alpha type 1	proteasome (prosome, macropain) subunit, alpha type 1
3392	5747	NM_017279	p	proteasome (prosome, macropain) subunit, alpha type 2	proteasome (prosome, macropain) subunit, alpha type 2
3392	5748	NM_017279	xx	proteasome (prosome, macropain) subunit, alpha type 2	proteasome (prosome, macropain) subunit, alpha type 2
3393	1447	NM_017281	t	proteasome (prosome, macropain) subunit, alpha type 4	proteasome (prosome, macropain) subunit, alpha type 4
3394	3254	NM_017282	e, kk, mm, nn	proteasome (prosome, macropain) subunit, alpha type 5	proteasome (prosome, macropain) subunit, alpha type 5
3394	3256	NM_017282	l, j, xx	proteasome (prosome, macropain) subunit, alpha type 5	proteasome (prosome, macropain) subunit, alpha type 5
3400	15819	NM_017298	u	calcium channel, voltage-dependent, L type, alpha 1D subunit	calcium channel, voltage-dependent, L type, alpha 1D subunit
3401	1531	NM_017300	General, ff, rr, uu	bile acid-Coenzyme A dehydrogenase: amino acid n-acyltransferase	bile acid-Coenzyme A dehydrogenase: amino acid n-acyltransferase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3402	14002	NM_017305	qq	glutamate-cysteine ligase , modifier subunit	glutamate-cysteine ligase , modifier subunit
3402	14003	NM_017305	qq, vv	glutamate-cysteine ligase , modifier subunit	glutamate-cysteine ligase , modifier subunit
3403	18685	NM_017306	o	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
3403	18687	NM_017306	o, ff, rr	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	Rat mRNA for delta3, delta2-enoyl-CoA isomerase, dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
3405	19671	NM_017309	k, mm	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)
3406	16844	NM_017311	r	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1
3420	21846	NM_017355	gg, hh	ras-related GTP-binding protein 4b	ras-related GTP-binding protein 4b
3422	20417	NM_017359	General	ras-related protein rab10	ras-related protein rab10
3427	455	NM_019131	k, bb, ll, mm, nn	Tropomyosin 1 (alpha)	Tropomyosin 1 (alpha)
3429	16227	NM_019137	gg, hh	Zinc-finger transcription factor NGFI-C (early response gene)	Zinc-finger transcription factor NGFI-C (early response gene)
3430	13715	NM_019139	gg, hh	Glial cell line derived neurotrophic factor	ESTs, Glial cell line derived neurotrophic factor
3431	14971	NM_019140	n, bb	Protein tyrosine phosphatase, receptor type, D	Protein tyrosine phosphatase, receptor type, D
3431	14975	NM_019140	dd	Protein tyrosine phosphatase, receptor type, D	Protein tyrosine phosphatase, receptor type, D
3433	5617	NM_019143	k	Fibronectin 1	Fibronectin 1
3433	5618	NM_019143	k	Fibronectin 1	Fibronectin 1
3433	5619	NM_019143	General	Fibronectin 1	Fibronectin 1
3433	5622	NM_019143	l, ii	Fibronectin 1	Fibronectin 1
3435	20863	NM_019152	g	calpain 1	calpain 1
3437	21090	NM_019158	General, dd, ff, nn	aquaporin 8	aquaporin 8
3438	20256	NM_019163	ii	presenilin 1	presenilin 1
3440	7489	NM_019169	g	synuclein, alpha	synuclein, alpha
3444	24019	NM_019186	ss, tt	ADP-ribosylation-like 4	ADP-ribosylation-like 4
3446	15242	NM_019191	f, General, ii	MAD homolog 2 (Drosophila)	MAD homolog 2 (Drosophila)
3447	22065	NM_019195	bb, nn	integrin-associated protein	integrin-associated protein
3448	18572	NM_019201	pp, tt	C-terminal binding protein 1	C-terminal binding protein 1
3450	19241	NM_019206	l, y, General, qq	Serine/threonine kinase 10	Serine/threonine kinase 10

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3452	2078	NM_019220	p, s, pp	amino-terminal enhancer of split	amino-terminal enhancer of split
3452	2079	NM_019220	z	amino-terminal enhancer of split	amino-terminal enhancer of split
3454	20938	NM_019223	t	NADH dehydrogenase Fe-S protein 6	NADH dehydrogenase Fe-S protein 6
3458	16449	NM_019238	jj	farnesyl diphosphate farnesyl transferase 1	farnesyl diphosphate farnesyl transferase 1
3458	16450	NM_019238	jj, oo, ss	farnesyl diphosphate farnesyl transferase 1	farnesyl diphosphate farnesyl transferase 1
3458	16451	NM_019238	bb, jj	farnesyl diphosphate farnesyl transferase 1	farnesyl diphosphate farnesyl transferase 1
3458	16452	NM_019238	jj	farnesyl diphosphate farnesyl transferase 1	farnesyl diphosphate farnesyl transferase 1
3461	21109	NM_019243	r	prostaglandin F2 receptor negative regulator	prostaglandin F2 receptor negative regulator
3462	888	NM_019246	n	proprotein convertase subtilisin/kexin type 7	proprotein convertase subtilisin/kexin type 7
3463	24849	NM_019248	e, u	neurotrophic tyrosine kinase, receptor, type 3	neurotrophic tyrosine kinase, receptor, type 3
3465	1450	NM_019251	x	blocked early in transport 1 homolog (S.cerevisiae)	blocked early in transport 1 homolog (S.cerevisiae)
3466	10340	NM_019252	d, j, tt	dolichol-phosphate (beta-D) mannosyltransferase 2	dolichol-phosphate (beta-D) mannosyltransferase 2
3468	7693	NM_019258	g	cystatin 8 (cystatin-related epididymal spermatogenic)	cystatin 8 (cystatin-related epididymal spermatogenic)
3469	15259	NM_019259	rr	complement component 1, q subcomponent binding protein	complement component 1, q subcomponent binding protein
3471	15763	NM_019265	k	sodium channel, voltage-gated, type XI, alpha polypeptide	sodium channel, voltage-gated, type XI, alpha polypeptide
3472	23625	NM_019269	o	solute carrier family 22 (organic cation transporter), member 5	solute carrier family 22 (organic cation transporter), member 5
3473	1412	NM_019271	ww	stress 70 protein chaperone, microsome-associated, 60kD human homolog	stress 70 protein chaperone, microsome-associated, 60kD human homolog
3474	1129	NM_019274	nn	collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase	collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase
3476	20734	NM_019283	q, z, General, jj	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
3476	20735	NM_019283	l, l, q, z, General	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title		
3477	22219	NM_019286	c, vv	Alcohol dehydrogenase (class I), alpha polypeptide	Alcohol dehydrogenase (class I), alpha polypeptide		
3487	1389	NM_019350	g	synaptotagmin 5	synaptotagmin 5		
3489	23491	NM_019359	k, v	calponin 3, acidic	calponin 3, acidic		
3491	18819	NM_019367	gg, hh, ii	palmitoyl-protein thioesterase 2	palmitoyl-protein thioesterase 2		
3498	20443	NM_019379	n, q, dd, oo	vesicle docking protein, 115 kDa	vesicle docking protein, 115 kDa		
3500	24626	NM_019381	h, x, General	Testis enhanced gene transcript	Testis enhanced gene transcript		
3509	18714	NM_020075	y	eukaryotic initiation factor 5 (eIF-5)	eukaryotic initiation factor 5 (eIF-5)		
3509	18715	NM_020075	l	eukaryotic initiation factor 5 (eIF-5)	eukaryotic initiation factor 5 (eIF-5)		
3509	18716	NM_020075	p, gg, hh	eukaryotic initiation factor 5 (eIF-5)	eukaryotic initiation factor 5 (eIF-5)		
3510	20493	NM_020076	b, k, l, General, bb, ff, qq, tt, uu	3-hydroxyanthranilate 3,4-dioxygenase	3-hydroxyanthranilate 3,4-dioxygenase		
3510	20494	NM_020076	cc, ii, ss	3-hydroxyanthranilate 3,4-dioxygenase	3-hydroxyanthranilate 3,4-dioxygenase		
3526	22916	NM_021740	ff	prothymosin alpha	prothymosin alpha		
3527	19709	NM_021742	d	nuclear receptor subfamily 5, group A, member 2	nuclear receptor subfamily 5, group A, member 2		
3529	19712	NM_021745	t, General, ff, kk, oo	nuclear receptor subfamily 1, group H, member 4	nuclear receptor subfamily 1, group H, member 4		
3532	20090	NM_021757	v, ww	pleiotropic regulator 1	pleiotropic regulator 1		
3534	17936	NM_021766	qq	progesterone receptor membrane component 1	progesterone receptor membrane component 1		
3535	20162	NM_021835	u, tt	Avian sarcoma virus 17 (v-jun) oncogene homolog	Avian sarcoma virus 17 (v-jun) oncogene homolog		
3535	22350	NM_021835	tt	Avian sarcoma virus 17 (v-jun) oncogene homolog	Avian sarcoma virus 17 (v-jun) oncogene homolog		
3535	22351	NM_021835	kk, tt	Avian sarcoma virus 17 (v-jun) oncogene homolog	Avian sarcoma virus 17 (v-jun) oncogene homolog		
3535	22352	NM_021835	y, kk, ss, tt	Avian sarcoma virus 17 (v-jun) oncogene homolog	Avian sarcoma virus 17 (v-jun) oncogene homolog		
3539	243	NM_021989	ii, rr	tissue inhibitor of metalloproteinase 2	ESTs, tissue inhibitor of metalloproteinase 2		
3543	25699	NM_022180	General, tt	Hepatic nuclear factor 4 (alpha transcription factor 4)	Hepatic nuclear factor 4 (alpha transcription factor 4)		
3543	20257	NM_022180	General	Hepatic nuclear factor 4 (alpha transcription factor 4)	Hepatic nuclear factor 4 (alpha transcription factor 4)		
3550	20312	NM_022224	bb	phosphotriesterase related	phosphotriesterase related		
3553	10509	NM_022268	p, General	liver glycogen phosphorylase	liver glycogen phosphorylase		
3553	25814	NM_022268	l	liver glycogen phosphorylase	liver glycogen phosphorylase		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3558	1914	NM_022380	g	signal transducer and activator of transcription 5b	signal transducer and activator of transcription 5b
3559	11454	NM_022381	c, f, kk, tt	Proliferating cell nuclear antigen	Proliferating cell nuclear antigen
3559	11455	NM_022381	c, f, jj, kk, nn	Proliferating cell nuclear antigen	Proliferating cell nuclear antigen
3569	402	NM_022403	c, l, vv, xx	tryptophan-2,3-dioxygenase	tryptophan-2,3-dioxygenase
3570	20915	NM_022407	b, ff	Aldehyde dehydrogenase 1, subfamily A1	Aldehyde dehydrogenase 1, subfamily A1
3571	4647	NM_022498	h, r, w, rr	Protein phosphatase 1, catalytic subunit, gamma isoform 1	Protein phosphatase 1, catalytic subunit, gamma isoform 1
3572	9183	NM_022499	s, nn	Parvalbumin (calcium binding protein)	Parvalbumin (calcium binding protein)
3574	2515	NM_022501	ww	cysteine-rich protein 2	cysteine-rich protein 2
3576	1347	NM_022506	h, l	ribosomal protein L31	ribosomal protein L31
3581	3027	NM_022514	h, w, ee, ll, qq	ribosomal protein L27	ribosomal protein L27
3582	2696	NM_022515	z, General, ee	ribosomal protein L24	ribosomal protein L24
3582	2697	NM_022515	ee, ll	ribosomal protein L24	ribosomal protein L24
3593	8984	NM_022539	ww	methionine aminopeptidase 2	methionine aminopeptidase 2
3596	21062	NM_022585	c, kk, tt, ww	ornithine decarboxylase antizyme inhibitor	ornithine decarboxylase antizyme inhibitor
3596	21063	NM_022585	ff	ornithine decarboxylase antizyme inhibitor	ornithine decarboxylase antizyme inhibitor
3611	17567	NM_022672	h, gg, hh	ribosomal protein S14	ribosomal protein S14
3613	24564	NM_022676	bb	protein phosphatase 1, regulatory (inhibitor) subunit 1A	protein phosphatase 1, regulatory (inhibitor) subunit 1A
3617	17729	NM_022697	h, v, x	ribosomal protein L28	ribosomal protein L28
3621	24344	NM_022701	pp	flotillin 1	flotillin 1
3630	24838	NM_022924	tt	coagulation factor II	coagulation factor II
3635	19669	NM_022944	x	SH2-containing inositol phosphatase 2	SH2-containing inositol phosphatase 2
3641	15727	NM_022953	g	Slit1	Slit1
3647	4228	NM_023950	u	RAB7, member RAS oncogene family	RAB7, member RAS oncogene family
3649	21238	NM_024125	t, ff	Liver activating protein (LAP, also NF-IL6, nuclear factor-IL6, previously designated TCF5)	Liver activating protein (LAP, also NF-IL6, nuclear factor-IL6, previously designated TCF5)
3649	21239	NM_024125	d, l, z	Liver activating protein (LAP, also NF-IL6, nuclear factor-IL6, previously designated TCF5)	Liver activating protein (LAP, also NF-IL6, nuclear factor-IL6, previously designated TCF5)



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3650	352	NM_024127	s, General	DNA-damage-inducible transcript 1	DNA-damage-inducible transcript 1
3650	353	NM_024127	n, z, General, ee, kk, qq, ww	DNA-damage-inducible transcript 1	DNA-damage-inducible transcript 1
3650	354	NM_024127	n, r, General, qq, vv	DNA-damage-inducible transcript 1	DNA-damage-inducible transcript 1
3652	17226	NM_024131	b, ff, vv	D-dopachrome tautomerase	D-dopachrome tautomerase
3652	17227	NM_024131	b, f, ff, vv	D-dopachrome tautomerase	D-dopachrome tautomerase
3653	851	NM_024132	c, kk	fatty acid amide hydrolase	fatty acid amide hydrolase
3654	1598	NM_024134	f, l, o, p, q, General, cc, dd, kk, ll, qq	DNA-damage inducible transcript 3	DNA-damage inducible transcript 3
3656	1878	NM_024138	cc	guanine nucleotide binding protein (G protein), gamma 7 subunit	guanine nucleotide binding protein (G protein), gamma 7 subunit
3657	20801	NM_024148	m, cc, oo, uu, ww	apurinic/aprimidinic endonuclease 1	apurinic/aprimidinic endonuclease 1
3661	561	NM_024156	nn	annexin VI	annexin VI
3662	22079	NM_024157	a, General, uu, vv	complement factor I	complement factor I
3664	4655	NM_024346	u	Scgn10 like-protein	Scgn10 like-protein
3665	17764	NM_024351	h, l, w, uu	heat shock 70kD protein 8	heat shock 70kD protein 8
3665	17765	NM_024351	l	heat shock 70kD protein 8	heat shock 70kD protein 8
3667	15350	NM_024356	p	GTP cyclohydrolase 1	GTP cyclohydrolase 1
3668	1146	NM_024359	a, m	hypoxia inducible factor 1, alpha subunit	hypoxia inducible factor 1, alpha subunit
3668	1148	NM_024359	a	hypoxia inducible factor 1, alpha subunit	hypoxia inducible factor 1, alpha subunit
3670	20772	NM_024363	c, v, oo	heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae)	heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae)
3673	20380	NM_024381	o	Glycerol kinase	Glycerol kinase
3681	19993	NM_024398	o, xx	mitochondrial aconitase (nuclear aco2 gene)	mitochondrial aconitase (nuclear aco2 gene)
3685	1835	NM_024483	e	adrenergic receptor, alpha 1d	adrenergic receptor, alpha 1d
3686	21039	NM_024484	ii	aminolevulinic acid synthase 1	aminolevulinic acid synthase 1
3697	1928	NM_030872	z, General, ee, kk	pyruvate dehydrogenase kinase 2 subunit p45 (PDK2)	pyruvate dehydrogenase kinase 2 subunit p45 (PDK2)
3699	17377	NM_030989	jj	Tumor protein p53 (Li-Fraumeni syndrome)	Tumor protein p53 (Li-Fraumeni syndrome)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3706	91	NM_031006	ll	adenosine deaminase RNA-specific	adenosine deaminase RNA-specific
3710	15682	NM_031011	a	S-Adenosylmethionine decarboxylase 1	S-Adenosylmethionine decarboxylase 1
3710	15683	NM_031011	kk, oo	S-Adenosylmethionine decarboxylase 1	S-Adenosylmethionine decarboxylase 1
3712	15700	NM_031013	k	liver multidrug resistance-associated protein 6	liver multidrug resistance-associated protein 6
3721	626	NM_031032	b, h, m, s, x, General, dd, oo	glia maturation factor beta	glia maturation factor beta
3733	7351	NM_031059	g	homeo box, msh-like 1	homeo box, msh-like 1
3734	400	NM_031062	jj, ww	mevalonate pyrophosphate decarboxylase	mevalonate pyrophosphate decarboxylase
3735	21701	NM_031063	jj	mevalonate kinase	mevalonate kinase
3736	11849	NM_031065	j, z, General, ll	ribosomal protein L10a	ribosomal protein L10a
3744	1376	NM_031094	a	Retinoblastoma-related gene	Retinoblastoma-related gene
3749	20462	NM_031102	h, m	ribosomal protein L18	ribosomal protein L18
3751	19268	NM_031104	gg, hh	ribosomal protein L22	ribosomal protein L22
3757	24615	NM_031112	General	ribosomal protein S24	ribosomal protein S24
3759	1579	NM_031117	c, oo, ww	SNRPN upstream reading frame, small nuclear ribonucleoprotein-associated protein (snRNP) mRNA, clone Sm51	small nuclear ribonucleoprotein-associated protein (snRNP) mRNA, clone Sm51
3775	16157	NM_031235	oo	three-PDZ containing protein similar to C. elegans PAR3 (partitioning defect)	three-PDZ containing protein similar to C. elegans PAR3 (partitioning defect)
3779	1857	NM_031315	o, xx	acyl-CoA thioesterase 1, cytosolic	acyl-CoA thioesterase 1, cytosolic
3780	15661	NM_031318	a, b, m, uu, vv	t-complex testis expressed 1	t-complex testis expressed 1
3780	15662	NM_031318	m, General	t-complex testis expressed 1	t-complex testis expressed 1
3780	15663	NM_031318	m	t-complex testis expressed 1	t-complex testis expressed 1
3783	4234	NM_031330	m, ff	argininosuccinate lyase, heterogeneous nuclear ribonucleoprotein A/B	heterogeneous nuclear ribonucleoprotein A/B
3793	15608	NM_031355	n	mitochondrial voltage dependent anion channel 3	mitochondrial voltage dependent anion channel 3
3795	24645	NM_031502	a, d, k, l, dd, uu	Amylase 1	Amylase 1
3798	24410	NM_031511	g	Insulin-like growth factor II (somatomedin A)	Insulin-like growth factor II (somatomedin A)
3801	1783	NM_031521	oo	Cell adhesion molecule, neural (CD56)	Cell adhesion molecule, neural (CD56)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3806	16047	NM_031541	j, General, ll	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1 (scavenger receptor class B type 1)	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1 (scavenger receptor class B type 1)
3808	1504	NM_031544	a, l, General, uu	Adenosine monophosphate deaminase 3	Adenosine monophosphate deaminase 3
3809	18389	NM_031545	gg, hh	Brain natriuretic factor	Brain natriuretic factor
3810	28	NM_031546	v, rr	Regucalcin	Regucalcin
3813	15411	NM_031559	o, y, ff	Carnitine palmitoyltransferase 1 alpha, liver isoform	Carnitine palmitoyltransferase 1 alpha, liver isoform
3814	18315	NM_031561	o	CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18316	NM_031561	o	CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18317	NM_031561	o	CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18318	NM_031561	j	CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18319	NM_031561	o	CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	25139	NM_031561	o	CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen (collagen type I receptor, thrombospondin receptor)
3815	16164	NM_031563	h, m, n, General	nuclease sensitive element binding protein 1	nuclease sensitive element binding protein 1
3820	24219	NM_031579	n, General	protein tyrosine phosphatase 4a1	protein tyrosine phosphatase 4a1
3821	1444	NM_031583	ww	chondroitin sulfate proteoglycan 6	chondroitin sulfate proteoglycan 6
3822	405	NM_031587	f, k, w, cc	peroxisomal membrane protein 2, 22 kDa	peroxisomal membrane protein 2, 22 kDa
3824	5496	NM_031589	e, k, l, m, General, dd, qq, ss	glucose-6-phosphatase, transport protein 1	glucose-6-phosphatase, transport protein 1
3824	5497	NM_031589	a, k, l, qq	glucose-6-phosphatase, transport protein 1	glucose-6-phosphatase, transport protein 1
3826	21843	NM_031594	e, ee, tt, ww	purinergic receptor P2X, ligand-gated ion channel 4	purinergic receptor P2X, ligand-gated ion channel 4
3829	19344	NM_031603	ee	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein, epsilon polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein, epsilon polypeptide

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3832	11296	NM_031606	b, m, General, oo, ww, xx	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)
3832	11297	NM_031606	ss	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)
3833	19023	NM_031609	cc	Neuroblastoma, suppression of tumorigenicity 1 (DNA segment human D1S1733E)	Neuroblastoma, suppression of tumorigenicity 1 (DNA segment human D1S1733E)
3834	12132	NM_031612	ss	apelin	apelin
3835	24235	NM_031614	uu	thioredoxin reductase 1	thioredoxin reductase 1
3836	1925	NM_031616	a, g	zinc finger protein 265	zinc finger protein 265
3840	15767	NM_031623	n, y, z, General, dd	growth factor receptor bound protein 14	growth factor receptor bound protein 14
3842	20940	NM_031629	y, nn	proteasome (prosome, macropain) subunit, beta type, 4	proteasome (prosome, macropain) subunit, beta type, 4
3842	20941	NM_031629	bb	proteasome (prosome, macropain) subunit, beta type, 4	proteasome (prosome, macropain) subunit, beta type, 4
3842	20942	NM_031629	mm	proteasome (prosome, macropain) subunit, beta type, 4	proteasome (prosome, macropain) subunit, beta type, 4
3844	6554	NM_031640	f	plasma glutamate carboxypeptidase	plasma glutamate carboxypeptidase
3847	18368	NM_031648	k	FXRD domain-containing ion transport regulator 1	FXRD domain-containing ion transport regulator 1
3847	18369	NM_031648	s	FXRD domain-containing ion transport regulator 1	FXRD domain-containing ion transport regulator 1
3849	866	NM_031657	gg, hh, pp	G protein-coupled receptor kinase 6	G protein-coupled receptor kinase 6
3851	24881	NM_031663	pp	solute carrier family 18 (vesicular monoamine), member 3	solute carrier family 18 (vesicular monoamine), member 3
3853	5358	NM_031675	t, ee, mm	Actinin, alpha 4	Actinin, alpha 4
3855	15823	NM_031680	g	pyrimidinergic receptor P2Y, G-protein coupled, 4	pyrimidinergic receptor P2Y, G-protein coupled, 4
3858	1004	NM_031685	m, x, dd	golgi SNAP receptor complex member 2	golgi SNAP receptor complex member 2
3861	21575	NM_031698	xx	ribophorin II	ribophorin II
3863	20404	NM_031700	General	claudin 3	claudin 3
3863	20405	NM_031700	a, l, General, cc, ss	claudin 3	claudin 3
3865	811	NM_031705	c, s, General, ll	dihydropyrimidinase	dihydropyrimidinase
3865	812	NM_031705	s, oo	dihydropyrimidinase	dihydropyrimidinase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3866	16204	NM_031706	l, x, General	ribosomal protein S8	ribosomal protein S8
3867	18055	NM_031707	nn	RuvB-like protein 1	RuvB-like protein 1
3867	18056	NM_031707	c	RuvB-like protein 1	RuvB-like protein 1
3869	21693	NM_031714	p, tt	heat-responsive protein 12	heat-responsive protein 12
3870	1339	NM_031715	e, bb	phosphofructokinase, muscle	phosphofructokinase, muscle
3871	19049	NM_031719	e	chloride channel, nucleotide-sensitive, 1A	chloride channel, nucleotide-sensitive, 1A
3871	19050	NM_031719	e, p	chloride channel, nucleotide-sensitive, 1A	chloride channel, nucleotide-sensitive, 1A
3873	23883	NM_031731	n, General, ee	alcohol dehydrogenase family 3, subfamily A2	alcohol dehydrogenase family 3, subfamily A2
3873	23884	NM_031731	ii	alcohol dehydrogenase family 3, subfamily A2	alcohol dehydrogenase family 3, subfamily A2
3876	1214	NM_031741	z, jj	nuclear receptor subfamily 1, group H, member 4, solute carrier family 2 (facilitated glucose transporter), member 5, synaptotagmin 2 binding protein	solute carrier family 2 (facilitated glucose transporter), member 5
3881	11611	NM_031756	w	gamma-glutamyl carboxylase	gamma-glutamyl carboxylase
3887	16115	NM_031775	bb	caspase 6	caspase 6
3895	15864	NM_031797	x	Kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))	ESTs, Kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))
3903	22321	NM_031832	f, j, General, ss	lectin, galactose binding, soluble 3	lectin, galactose binding, soluble 3
3913	16726	NM_031855	General, dd	Ketohexokinase	Ketohexokinase
3915	19190	NM_031969	s	Calmodulin 1 (phosphorylase kinase, delta)	Calmodulin 1 (phosphorylase kinase, delta)
3915	19193	NM_031969	l, dd	Calmodulin 1 (phosphorylase kinase, delta)	Calmodulin 1 (phosphorylase kinase, delta)
3915	19195	NM_031969	c	Calmodulin 1 (phosphorylase kinase, delta)	Calmodulin 1 (phosphorylase kinase, delta)
3915	19196	NM_031969	rr	Calmodulin 1 (phosphorylase kinase, delta)	Calmodulin 1 (phosphorylase kinase, delta)
3915	25802	NM_031969	c, x	Calmodulin 1 (phosphorylase kinase, delta)	Calmodulin 1 (phosphorylase kinase, delta)
3917	16865	NM_031973	a, cc, uu	dipeptidyl peptidase 7	dipeptidyl peptidase 7
3918	17075	NM_031974	l, General, kk, ll, ss	clathrin light chain	clathrin light chain
3920	17601	NM_031976	ww	5'-AMP-activated protein kinase, beta subunit	5'-AMP-activated protein kinase, beta subunit

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3921	15470	NM_031978	u, mm	26S proteasome, subunit p112	26S proteasome, subunit p112
3924	18501	NM_031984	s, v, mm, xx	cerebellar Ca-binding protein, spot 35 protein	cerebellar Ca-binding protein, spot 35 protein
3927	20554	NM_031987	o	carnitine O-octanoyltransferase	carnitine O-octanoyltransferase
3927	20555	NM_031987	o	carnitine O-octanoyltransferase	carnitine O-octanoyltransferase
3928	18640	NM_032057	p, ee	Inositol (myo)-1(or 4)-monophosphatase 1	Inositol (myo)-1(or 4)-monophosphatase 1
3932	590	NM_032080	b, c, m, kk	glycogen synthase kinase 3 beta	glycogen synthase kinase 3 beta
3932	591	NM_032080	b, c, l, z, General, tt, vv	glycogen synthase kinase 3 beta	glycogen synthase kinase 3 beta
3935	17474	NM_032614	u	thioredoxin-like 2	thioredoxin-like 2
3937	20490	NM_032617	ll	RAB11B, member RAS oncogene family	RAB11B, member RAS oncogene family
3943	1409	NM_033349	t, jj	Hydroxyacyl glutathione hydrolase	Hydroxyacyl glutathione hydrolase
3944	12363	NM_033351	oo	Fc fragment immunoglobulin G receptor	Fc fragment immunoglobulin G receptor
3944	12364	NM_033351	o	Fc fragment immunoglobulin G receptor	Fc fragment immunoglobulin G receptor
3946	23895	NM_033485	tt	Prostate apoptosis response protein 4	Prostate apoptosis response protein 4
3948	1423	NM_052801	mm	von Hippel-Lindau syndrome	von Hippel-Lindau syndrome
3948	1424	NM_052801	ww	von Hippel-Lindau syndrome	von Hippel-Lindau syndrome
3950	25024	NM_052809	b, o, vv	cytosolic cysteine dioxygenase 1	cytosolic cysteine dioxygenase 1
3950	15028	NM_052809	b, qq, vv	cytosolic cysteine dioxygenase 1	cytosolic cysteine dioxygenase 1
3951	412	NM_053288	y	Orosomucoid 1	Orosomucoid 1
3953	1524	NM_053293	General	Glutathione S-transferase 1 (theta)	Glutathione S-transferase 1 (theta)
3954	1187	NM_053295	t	Calpastatin	Calpastatin
3956	15749	NM_053309	cc	homer, neuronal immediate early gene, 2	homer, neuronal immediate early gene, 2
3956	15750	NM_053309	e	homer, neuronal immediate early gene, 2	homer, neuronal immediate early gene, 2
3956	15751	NM_053309	x	homer, neuronal immediate early gene, 2	homer, neuronal immediate early gene, 2
3957	17473	NM_053319	pp, tt	dynein, cytoplasmic, light chain 1	dynein, cytoplasmic, light chain 1
3959	25480	NM_053329	x	insulin-like growth factor binding protein, acid labile subunit	insulin-like growth factor binding protein, acid labile subunit
3962	14934	NM_053337	m, x, ll, ww	Msx-interacting-zinc finger	Msx-interacting-zinc finger
3964	18949	NM_053345	f	general transcription factor Ila, 2 (12kD subunit)	general transcription factor Ila, 2 (12kD subunit)
3968	623	NM_053369	jj	transcription factor 4	transcription factor 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3970	3844	NM_053371	j	fractured callus expressed transcript 1	fractured callus expressed transcript 1
3982	22586	NM_053469	a, n, y	hepcidin antimicrobial peptide	hepcidin antimicrobial peptide
3983	21866	NM_053472	s	cytochrome c oxidase, subunit IVb	cytochrome c oxidase, subunit IVb
3990	2016	NM_053527	d	CDC5 (cell division cycle 5, S. pombe, homolog)-like	CDC5 (cell division cycle 5, S. pombe, homolog)-like
4001	10986	NM_053571	c, l, m, General	regucalcin gene promotor region related protein	regucalcin gene promotor region related protein
4002	19252	NM_053576	x	peroxiredoxin 5	peroxiredoxin 5
4004	21154	NM_053584	m, z, dd, ee	golgi SNAP receptor complex member 1	golgi SNAP receptor complex member 1
4016	15925	NM_053607	m	long-chain fatty acid coenzyme A ligase 5	long-chain fatty acid coenzyme A ligase 5
4017	20243	NM_053615	ff	casein kinase 1, alpha 1	casein kinase 1, alpha 1
4018	3062	NM_053617	a, cc	carboxypeptidase B2 (plasma)	carboxypeptidase B2 (plasma)
4019	926	NM_053619	g	complement component 5, receptor 1	complement component 5, receptor 1
4021	659	NM_053622	q	nuclear pore membrane glycoprotein 121 kD	nuclear pore membrane glycoprotein 121 kD
4025	23305	NM_053638	jj	isocitrate dehydrogenase 3 (NAD+) alpha	isocitrate dehydrogenase 3 (NAD+) alpha
4029	1120	NM_053655	g, n	dynammin 1-like	dynammin 1-like
4038	13369	NM_053742	v	phosphatidylinositol transfer protein, beta	phosphatidylinositol transfer protein, beta
4039	10512	NM_053743	k, mm	CDC37 (cell division cycle 37, S. cerevisiae, homolog)	CDC37 (cell division cycle 37, S. cerevisiae, homolog)
4041	15376	NM_053747	x, General, kk	ubiquitin 1	ubiquitin 1
4044	7927	NM_053765	e, t	UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase	UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase
4046	15995	NM_053769	r, ff	protein tyrosine phosphatase, non-receptor type 16	protein tyrosine phosphatase, non-receptor type 16
4046	15996	NM_053769	n, ff, kk	protein tyrosine phosphatase, non-receptor type 16	protein tyrosine phosphatase, non-receptor type 16
4046	15997	NM_053769	d, n, r, w, y	protein tyrosine phosphatase, non-receptor type 16	protein tyrosine phosphatase, non-receptor type 16
4080	794	NM_053902	l	kynureninase (L-kynurenine hydrolase)	kynureninase (L-kynurenine hydrolase)
4082	17937	NM_053911	ss, uu	pleckstrin homology, Sec7 and coiled/coil domains 2	pleckstrin homology, Sec7 and coiled/coil domains 2
4085	15857	NM_053948	b, e, bb, oo, ww	polymerase (RNA) II (DNA directed) polypeptide G	polymerase (RNA) II (DNA directed) polypeptide G
4090	19991	NM_053961	cc	mitochondrial aconitase (nuclear aco2 gene)	mitochondrial aconitase (nuclear aco2 gene)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4108	22849	NM_057099	c	proteasome (prosome, macropain) subunit, beta type 6	proteasome (prosome, macropain) subunit, beta type 6
4111	9527	NM_057104	c, q, General, jj	ectonucleotide pyrophosphatase/phosphodiesterase 2	ectonucleotide pyrophosphatase/phosphodiesterase 2
4112	5492	NM_057105	e	UDP glycosyltransferase 1 family, polypeptide A6	ESTs, UDP glycosyltransferase 1 family, polypeptide A6
4112	5493	NM_057105	e	UDP glycosyltransferase 1 family, polypeptide A6	ESTs, UDP glycosyltransferase 1 family, polypeptide A6
4112	15124	NM_057105	jj	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A7, UDP-glucuronosyltransferase 1 family, member 1	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A7, UDP-glucuronosyltransferase 1 family, member 1
4112	15126	NM_057105	t, jj	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A7, UDP-glucuronosyltransferase 1 family, member 1	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A7, UDP-glucuronosyltransferase 1 family, member 1
4112	15127	NM_057105	k, t, General, mm	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A7, UDP-glucuronosyltransferase 1 family, member 1	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A7, UDP-glucuronosyltransferase 1 family, member 1
4113	3743	NM_057107	nn	fatty acid Coenzyme A ligase, long chain 3	fatty acid Coenzyme A ligase, long chain 3
4121	19834	NM_057139	v	transporter protein; system N1 Na <sup>+</sup> and H <sup>+</sup> -coupled glutamine transporter	transporter protein; system N1 Na <sup>+</sup> and H <sup>+</sup> -coupled glutamine transporter
4126	15408	NM_057197	rr	2,4-dienoyl CoA reductase 1, mitochondrial	2,4-dienoyl CoA reductase 1, mitochondrial
4126	15409	NM_057197	ff, ii, jj	2,4-dienoyl CoA reductase 1, mitochondrial	2,4-dienoyl CoA reductase 1, mitochondrial
4132	24653	NM_080580	e	RAB3D, member RAS oncogene family	RAB3D, member RAS oncogene family
4133	17956	NM_080583	m, vv	adaptor-related protein complex 2, beta 1 subunit	adaptor-related protein complex 2, beta 1 subunit
4133	17958	NM_080583	ff, xx	adaptor-related protein complex 2, beta 1 subunit	adaptor-related protein complex 2, beta 1 subunit
4134	16108	NM_080585	d, q, gg, hh	N-ethylmaleimide sensitive fusion protein attachment protein alpha	N-ethylmaleimide sensitive fusion protein attachment protein alpha
4134	16109	NM_080585	e, q	N-ethylmaleimide sensitive fusion protein attachment protein alpha	N-ethylmaleimide sensitive fusion protein attachment protein alpha



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4136	19831	NM_080781	b, q, x, dd	coatomer protein complex, subunit beta 1	coatomer protein complex, subunit beta 1
4138	25693	NM_080783	jj, xx	galactose-4-epimerase, UDP	galactose-4-epimerase, UDP
4139	25799	NM_080886	a, f, n, x, cc, ff, jj, uu	sterol-C4-methyl oxidase-like	sterol-C4-methyl oxidase-like
4139	21842	NM_080886	a, f, jj, pp	sterol-C4-methyl oxidase-like	sterol-C4-methyl oxidase-like
4148	8167	NM_130406	q, ll	Fas-associated factor 1	Fas-associated factor 1
4154	13515	NM_130430	y	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9
4156	14959	NM_130734	h, x, General, dd, ee	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1
4159	22220	NM_130780	vv	Alcohol dehydrogenase (class I), alpha polypeptide	Alcohol dehydrogenase (class I), alpha polypeptide
4165	25730	NM_133290	r, t	zinc finger protein 36	zinc finger protein 36
4166	20879	NM_133295	j	carboxylesterase 3	carboxylesterase 3
4167	19456	NM_133298	l, cc, qq, uu	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
4167	4048	NM_133298	l, cc, qq, uu	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
4167	4049	NM_133298	l, cc, tt, uu	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
4184	2788	NM_133528	z, ee	preimplantation protein 3	preimplantation protein 3
4222	21098	NM_134432	qq	Angiotensinogen	Angiotensinogen
4226	12215	NM_138502	o	monoglyceride lipase	monoglyceride lipase
4228	16179	NM_138508	xx	Sterol carrier protein 2, liver	Sterol carrier protein 2, liver
4228	16180	NM_138508	h, l, General, dd, jj, oo	Sterol carrier protein 2, liver	Sterol carrier protein 2, liver
4238	14822	NM_138708	m, s	Rab geranylgeranyl transferase component, subunit beta	Rab geranylgeranyl transferase component, subunit beta
4240	16248	NM_138827	t, mm	Solute carrier family 2 a 1 (facilitated glucose transporter) brain	Solute carrier family 2 a 1 (facilitated glucose transporter) brain
4240	16249	NM_138827	p, ff	Solute carrier family 2 a 1 (facilitated glucose transporter) brain	Solute carrier family 2 a 1 (facilitated glucose transporter) brain
4240	16250	NM_138827	mm	Solute carrier family 2 a 1 (facilitated glucose transporter) brain	Solute carrier family 2 a 1 (facilitated glucose transporter) brain
4240	16251	NM_138827	mm	Solute carrier family 2 a 1 (facilitated glucose transporter) brain	Solute carrier family 2 a 1 (facilitated glucose transporter) brain
4241	16400	NM_138828	m, x	Apolipoprotein E,	Apolipoprotein E,
4271	17203	NM_139099	pp	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit

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4271	17204	NM_139099	p, x, mm	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit
4272	17549	NM_139100	m, ee	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 3	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 3
4311	1382	NM_147177	c, e, dd	RuvB-like protein 1	RuvB-like protein 1
4326	5624	R47122	bb, cc	Fibronectin 1	Fibronectin 1
4335	1471	S68809	e	S100 calcium binding protein A1	ESTs, Highly similar to S10A_RAT S-100 protein, alpha chain [R.norvegicus]
4351	20431	S81448	qq, xx	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
4363	16675	U17565	ww	mini chromosome maintenance deficient 6 (S. cerevisiae)	mini chromosome maintenance deficient 6 (S. cerevisiae)
4377	15851	U42719	vv	Complement component 4	Complement component 4
4378	19543	U44948	ww	cysteine-rich protein 2	cysteine-rich protein 2
4390	1715	U72660	o, mm	Ninjurin	Ninjurin
4404	818	X02291	a, s, ff, qq, tt, uu	Aldolase B, fructose-biphosphate	Aldolase B, fructose-biphosphate
4408	20715	X07259	o, xx	Cytochrome P450, subfamily IVB, polypeptide 1	Cytochrome P450, subfamily IVB, polypeptide 1
4412	20597	X12459	b, ff	Arginosuccinate synthetase 1	Arginosuccinate synthetase 1
4421	575	X15734	a, l	S - adenosylmethionine synthetase	S - adenosylmethionine synthetase
4429	20427	X53378	General, ll	ribosomal protein S13	ribosomal protein S13
4439	25702	X58465	l	Ribosomal protein S5	Ribosomal protein S5
4439	10109	X58465	h, l, ee, ll	Ribosomal protein S5	Ribosomal protein S5
4483	19694	Z48444	ee	A disintegrin and metalloprotease domain (ADAM) 10	A disintegrin and metalloprotease domain (ADAM) 10
4484	15569	Z78279	bb	procollagen, type I, alpha 1	procollagen, type I, alpha 1
63	20995	AA799724	General	HMm:RNA polymerase 1-3 (16 kDa subunit)	ESTs, Highly similar to RPA9_MOUSE DNA-directed RNA polymerase I 16 kDa polypeptide (RPA16) [M.musculus]
63	20996	AA799724	b, f, General, kk, nn, qq	HMm:RNA polymerase 1-3 (16 kDa subunit)	ESTs, Highly similar to RPA9_MOUSE DNA-directed RNA polymerase I 16 kDa polypeptide (RPA16) [M.musculus]
416	14138	AA859700	p, General	HMm:protoporphyrinogen oxidase	ESTs, Highly similar to PPOX_MOUSE PROTOPORPHYRINOGEN OXIDASE (PPO) [M.musculus]

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464	16074	AA874874	t	HMm:alcohol dehydrogenase 5	ESTs, Highly similar to ADHX_RAT ALCOHOL DEHYDROGENASE CLASS III (ALCOHOL DEHYDROGENASE 2) (GLUTATHIONE-DEPENDENT FORMALDEHYDE DEHYDROGENASE) (FDH) (FALDH) (ALCOHOL DEHYDROGENASE-B2) [R.norvegicus]
480	20389	AA875045	oo	HMm:phosphodiesterase 6D, cGMP-specific, rod, delta	ESTs, Highly similar to CNRD_MOUSE Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase delta-subunit (GMP-PDE delta) [M.musculus]
483	21589	AA875084	y, nn	HMm:transducin-like enhancer of split 1, homolog of Drosophila E(spl)	ESTs, Highly similar to TLE4_RAT Transducin-like enhancer protein 4 (ESP2 protein) [R.norvegicus]
552	9090	AA891690	h, s	HMm:tumor necrosis factor (ligand) superfamily, member 13	ESTs, Highly similar to tumor necrosis factor (ligand) superfamily, member 13 [Mus musculus] [M.musculus]
668	11997	AA892828	ll	HMm:pyruvate dehydrogenase (lipoamide) beta	ESTs, Highly similar to S15892 pyruvate dehydrogenase (lipoamide) (EC 1.2.4.1) beta chain - rat [R.norvegicus]
705	17754	AA893246	a, w	HMm:ATPase, H+ transporting, lysosomal 34kD, V1.subunit D	ESTs, Highly similar to VATD_MOUSE Vacuolar ATP synthase subunit D (V-ATPase D subunit) (Vacuolar proton pump D subunit) (V-ATPase 28 kDa accessory protein) [M.musculus]
1076	24289	AA955986	t	HMm:galactokinase	ESTs, Highly similar to GAL1_MOUSE Galactokinase (Galactose kinase) [M.musculus]
1098	12000	AA957319	bb	HMm:pyruvate dehydrogenase (lipoamide) beta	ESTs, Highly similar to S15892 pyruvate dehydrogenase (lipoamide) (EC 1.2.4.1) beta chain - rat [R.norvegicus]
1126	2308	AA964227	l, General	HMm:methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase	ESTs, Highly similar to A33267 methylenetetrahydrofolate dehydrogenase (NAD+) (EC 1.5.1.15) / methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9) precursor - mouse [M.musculus]
1284	20214	AF091567	xx	olfactory receptor 41	olfactory receptor 41
1285	20236	AF091570	cc	olfactory receptor 41	olfactory receptor 41
1286	25222	AF091574	g	olfactory receptor 41	olfactory receptor 41
1336	15452	AI009484	s	HMm:gelsolin	ESTs, Highly similar to GELS_MOUSE Gelsolin (Actin-depolymerizing factor) (ADF) (Brevin) [M.musculus]
1456	21302	AI013297	o	HMm:NADH dehydrogenase (ubiquinone) Fe-S protein 4	ESTs, Moderately similar to NADH dehydrogenase (ubiquinone) Fe-S protein 4; NADH dehydrogenase (ubiquinone) Fe-S protein 4 (18 kDa) [Mus musculus] [M.musculus]

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1565	7935	AI043945	General	HMm:ferrochelatase	ESTs, Highly similar to A37972 ferrochelatase (EC 4.99.1.1) precursor - mouse [M.musculus]
1809	9421	AI072885	pp	HMm:inositol polyphosphate-1-phosphatase	ESTs, Moderately similar to INPP_MOUSE Inositol polyphosphate 1-phosphatase (IPPase) (IPP) [M.musculus]
2020	23788	AI137176	ss	HMm:alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB)	ESTs, Moderately similar to alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB); alpha-N-acetylglucosaminidase, lysosomal [Mus musculus] [M.musculus]
2259	5876	AI176117	oo	HMm:pyruvate dehydrogenase (lipoamide) beta	ESTs, ESTs, Highly similar to S15892 pyruvate dehydrogenase (lipoamide) (EC 1.2.4.1) beta chain - rat [R.norvegicus]
2387	4279	AI178808	k	HMm:interleukin 2 receptor, gamma chain	ESTs, Highly similar to I49280 interleukin-2 receptor gamma chain precursor - mouse [M.musculus]
2689	16781	AI234527	ll, qq	HMm:glutathione S-transferase, alpha 4	ESTs, Highly similar to S23433 glutathione transferase (EC 2.5.1.18) 8 - rat [R.norvegicus]
2860	20082	AI639488	h, r, General, ii	HMm:transformed mouse 3T3 cell double minute 2	ESTs, Highly similar to A42772 mdm2 protein - rat (fragments) [R.norvegicus]
2878	14882	D00362	w, ll, rr	Esterase 2	Esterase 2
2928	4378	H32966	y	HMm:Tnf receptor-associated factor 2	ESTs, Highly similar to I61512 TNF receptor associated factor 2 - mouse [M.musculus]
2997	14881	M20629	j, dd, ll	Esterase 2	Esterase 2
3034	1379	M83676	qq, vv	RAB12, member RAS oncogene family	RAB12, member RAS oncogene family
3183	18694	NM_012931	mm	v-crk-associated tyrosine kinase substrate	v-crk-associated tyrosine kinase substrate
3194	709	NM_012968	h	Interleukin 1 receptor accessory protein	Interleukin 1 receptor accessory protein
3204	9917	NM_012993	qq	N-arginine dibasic convertase 1	N-arginine dibasic convertase 1
3204	9918	NM_012993	ll	N-arginine dibasic convertase 1	N-arginine dibasic convertase 1
3207	24718	NM_013003	tt	Phosphatidylethanolamine N-methyltransferase	Phosphatidylethanolamine N-methyltransferase
3223	14421	NM_013053	o	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
3313	923	NM_017076	f, l, n, p, kk, xx	Tumor-associated glycoprotein pE4	Tumor-associated glycoprotein pE4
3361	18050	NM_017204	nn	microtubule-associated protein 6	microtubule-associated protein 6
3399	707	NM_017293	b	kinase interacting with leukemia-associated gene (stathmin)	kinase interacting with leukemia-associated gene (stathmin)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3475	2439	NM_019277	m, ss	SEC15 homolog (S. cerevisiae)	SEC15 homolog (S. cerevisiae)
3562	695	NM_022388	y	corticosteroid-induced protein	corticosteroid-induced protein
3669	8879	NM_024360	u	hairy and enhancer of split 1, (Drosophila)	hairy and enhancer of split 1, (Drosophila)
3831	67	NM_031605	cc	cytochrome P450, 4a10	cytochrome P450, 4a10
3860	16664	NM_031695	v	sialyltransferase 5	sialyltransferase 5
3868	16918	NM_031709	x, z, ee, gg, hh, ll	ribosomal protein S12	ribosomal protein S12
3955	20235	NM_053302	bb	adrenomedullin receptor	ESTs, Weakly similar to dual-specificity phosphatase [Mus musculus] [M.musculus]
4117	1888	NM_057130	n, bb	BH3 interacting (with BCL2 family) domain, apoptosis agonist	BH3 interacting (with BCL2 family) domain, apoptosis agonist
4185	1394	NM_133536	l, v, xx	RAB3C, member RAS oncogene family	RAB3C, member RAS oncogene family
4305	1448	NM_145783	oo	HMm:cytochrome c oxidase, subunit Va	Rat CoxVa mRNA for mitochondrial cytochrome c oxidase subunit Va
4353	13520	S87522	c	HMm:leukotriene A4 hydrolase	ESTs, Highly similar to S20444 leukotriene-A4 hydrolase (EC 3.3.2.6) - rat [R.norvegicus]
4449	16780	X62660	b, m, qq, vv	HMm:glutathione S-transferase, alpha 4	ESTs, Highly similar to S23433 glutathione transferase (EC 2.5.1.18) 8 - rat [R.norvegicus]
6	6049	AA685178	a, General, cc, rr		ESTs, Highly similar to T30827 nascent polypeptide-associated complex alpha chain, non-muscle splice form - mouse [M.musculus]
16	22646	AA799301	r		ESTs, Highly similar to LIGA_MOUSE Ligatin [M.musculus]
22	6581	AA799412	v		ESTs, Weakly similar to I67424 hERR-2 homolog - rat (fragment) [R.norvegicus]
32	6505	AA799499	p		ESTs, Moderately similar to RIKEN cDNA 2700033I16 [Mus musculus] [M.musculus]
34	16942	AA799520	ee		ESTs, Highly similar to ITMB_MOUSE Integral membrane protein 2B (E25B protein) [M.musculus]
35	21120	AA799526	pp		ESTs, Highly similar to RIKEN cDNA 1700043E15 [Mus musculus] [M.musculus]
40	16959	AA799550	u		ESTs, Moderately similar to RIKEN cDNA 9130413I22 [Mus musculus] [M.musculus]
52	20093	AA799637	u		ESTs, Weakly similar to A55071 hydrogen peroxide-inducible protein hic-5 - mouse [M.musculus]
53	18226	AA799641	u, rr, ss		ESTs, Moderately similar to I53063 testicular tumor overexpressed protein - mouse [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
76	18880	AA799801	bb, ii		ESTs, Moderately similar to predicted gene ICRFP703B1614Q5.6; ICRFP703N2430Q5.6; C11orf17 [Mus musculus] [M.musculus]
87	18378	AA799888	bb		ESTs, Highly similar to nuclear localization signal protein absent in velo-cardio-facial patients [Mus musculus] [M.musculus]
90	15011	AA799893	l, s, z, kk, nn		ESTs, Highly similar to DDRT helix-destabilizing protein - rat [R.norvegicus]
95	18881	AA799992	a, d		ESTs, Moderately similar to predicted gene ICRFP703B1614Q5.6; ICRFP703N2430Q5.6; C11orf17 [Mus musculus] [M.musculus]
95	18883	AA799992	a		ESTs, ESTs, Moderately similar to predicted gene ICRFP703B1614Q5.6; ICRFP703N2430Q5.6; C11orf17 [Mus musculus] [M.musculus]
96	2098	AA799995	l	ribosomal protein L14	ribosomal protein L14
106	21064	AA800175	m, ww		ESTs, Highly similar to JC7136 peptidylprolyl isomerase (EC 5.2.1.8) - mouse [M.musculus]
110	15659	AA800199	ss		ESTs, Weakly similar to B39066 proline-rich protein 15 - rat [R.norvegicus]
116	18442	AA800258	f, pp, ww		ESTs, Moderately similar to low density lipoprotein B [Mus musculus] [M.musculus]
133	16463	AA800663	k		ESTs, Highly similar to RAN binding protein 16 [Mus musculus] [M.musculus]
158	22025	AA800849	ss		ESTs, Moderately similar to 0806162L protein URF5 [Mus musculus] [M.musculus]
168	23115	AA801165	d	Testis-specific histone 2a	Testis-specific histone 2a
175	1397	AA817787	s, General		ESTs, Highly similar to potassium channel modulatory factor DEBT-91; clone DEBT-91 [Mus musculus] [M.musculus]
188	2431	AA817945	ff		ESTs, Highly similar to TBCA_MOUSE TUBULIN-SPECIFIC CHAPERONE A (TUBULIN-FOLDING COFACTOR A) (CFA) (TCP1-CHAPERONIN COFACTOR A) [M.musculus]
193	2845	AA818026	h		ESTs, Weakly similar to PSD7_MOUSE 26S proteasome non-ATPase regulatory subunit 7 (26S proteasome regulatory subunit S12) (Proteasome subunit p40) (Mov34 protein) [M.musculus]
198	3275	AA818112	f, uu		ESTs, Weakly similar to neugrin; neurite outgrowth associated protein [Mus musculus] [M.musculus]
213	14123	AA818554	g		R.norvegicus mRNA for tropomyosin isoform 6

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
225	4491	AA818798	xx		Rattus norvegicus mRNA for cathepsin Y, partial cds
235	11978	AA819129	b		ESTs, Moderately similar to S27161 glutathione transferase (EC 2.5.1.18) 5 - rat [R.norvegicus]
237	6329	AA819259	j, p		ESTs, Moderately similar to S31799 apolipoprotein C2 precursor - mouse [M.musculus]
239	9000	AA819318	r		ESTs, Highly similar to JC4141 YL-1 protein mouse [M.musculus]
248	5169	AA819488	l, General		ESTs, Weakly similar to B34488 calpain (EC 3.4.22.17) large chain 3 - rat [R.norvegicus]
260	19451	AA819788	ll		ESTs, Weakly similar to 28kD interferon alpha responsive protein [Mus musculus] [M.musculus]
264	230	AA819870	uu		Rattus norvegicus complement C8 beta (C8b) mRNA, partial cds
265	19566	AA819879	c		ESTs, Weakly similar to phosducin-like protein 2; protein B [Mus musculus] [M.musculus]
266	320	AA819905	ee	stearoyl-Coenzyme A desaturase 1	stearoyl-Coenzyme A desaturase 1
271	23759	AA848402	u		ESTs, Weakly similar to A57284 spermatid perinuclear RNA-binding protein Spnr - mouse [M.musculus]
282	7749	AA848804	jj		ESTs, Highly similar to BTF3_MOUSE Transcription factor BTF3 (RNA polymerase B transcription factor 3) [M.musculus]
306	18696	AA849965	q, nn, qq, xx		ESTs, Highly similar to MO25_MOUSE MO25 protein [M.musculus]
315	19042	AA850378	t		ESTs, Moderately similar to methyl-CpG binding domain protein 2 [Mus musculus] [M.musculus]
317	13975	AA850450	xx		Rattus norvegicus mRNA for class I beta-tubulin, complete cds
323	16132	AA850885	ee	unknown Glu-Pro dipeptide repeat protein	unknown Glu-Pro dipeptide repeat protein
327	2847	AA850919	cc		ESTs, Weakly similar to FAS_RAT FATTY ACID SYNTHASE [INCLUDES: EC 2.3.1.38; EC 2.3.1.39; EC 2.3.1.41; EC 1.1.1.100; EC 4.2.1.61; EC 1.3.1.10; EC 3.1.2.14] [R.norvegicus]
328	3924	AA851017	ff		ESTs, Highly similar to molybdenum cofactor synthesis 2 [Mus musculus] [M.musculus]
332	4490	AA851184	ii		Rattus norvegicus mRNA for cathepsin Y, partial cds

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
335	17823	AA851214	y		ESTs, Highly similar to hypothetical protein MGC7474 [Mus musculus] [M.musculus]
338	19189	AA851237	dd		ESTs, Highly similar to UBPI_MOUSE Ubiquitin carboxyl-terminal hydrolase 18 (Ubiquitin thiolesterase 18) (Ubiquitin-specific processing protease 18) (Deubiquitinating enzyme 18) (43 kDa ubiquitin-specific protease) [M.musculus]
346	883	AA851347	t		ESTs, Highly similar to SNX5_MOUSE Sorting nexin 5 [M.musculus]
349	21489	AA851443	e		ESTs, Weakly similar to l49523 tumor necrosis factor alpha-induced protein 2 - mouse [M.musculus]
355	6687	AA851739	General		ESTs, Highly similar to tousled-like kinase 2 (Arabidopsis); protein kinase U-alpha; Tousled-like kinase (Arabidopsis) [Mus musculus] [M.musculus]
356	18697	AA851776	j		ESTs, Highly similar to MO25_MOUSE MO25 protein [M.musculus]
358	14292	AA851791	c		ESTs, Weakly similar to CBP_MOUSE CREB-binding protein [M.musculus]
365	18001	AA858573	x, bb, gg, hh	spp-24 precursor	spp-24 precursor
375	6380	AA858758	o		ESTs, Weakly similar to RIKEN cDNA 1500031O19 [Mus musculus] [M.musculus]
379	6403	AA858879	y		ESTs, Highly similar to proteasome (prosome, macropain) 26S subunit, non-ATPase, 13; 26S proteasome subunit p40.5 [Mus musculus] [M.musculus]
381	14589	AA858982	p, y		ESTs, Highly similar to LIM only 4 [Mus musculus] [M.musculus]
382	16985	AA858990	rr		ESTs, Highly similar to EF1G_MOUSE Elongation factor 1-gamma (EF-1-gamma) (eEF-1B gamma) [M.musculus]
383	17559	AA858994	ll	parathymosin	parathymosin
388	6440	AA859130	w, pp		ESTs, Weakly similar to JC2524 phosphoprotein phosphatase (EC 3.1.3.16) 1A-beta - rat [R.norvegicus]
396	15172	AA859362	p		ESTs, Highly similar to BAG3_MOUSE BAG-family molecular chaperone regulator-3 (BCL2 binding athanogene-3) (BAG-3) (Bcl-2-binding protein Bis) [M.musculus]
408	17142	AA859612	gg, hh		EST, Moderately similar to 0806162J protein URF4 [Mus musculus] [M.musculus]
434	22593	AA859977	tt		ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
441	4222	AA860024	ll, rr		ESTs, Highly similar to EF1G_MOUSE Elongation factor 1-gamma (EF-1-gamma) (eEF-1B gamma) [M.musculus]
442	13974	AA860030	n, qq, ss		Rattus norvegicus mRNA for class I beta-tubulin, complete cds
460	16013	AA866482	r, x		ESTs, Highly similar to FGD1_MOUSE Putative Rho/Rac guanine nucleotide exchange factor (Rho/Rac GEF) (Faciogenital dysplasia protein homolog) [M.musculus]
461	16029	AA874803	ss		ESTs, Moderately similar to 0806162L protein URF5 [Mus musculus] [M.musculus]
470	16146	AA874934	y		ESTs, Moderately similar to A Chain A, The C2b-Domain Of Rabphilin: Structural Variations In A Janus-Faced Domain [R.norvegicus]
471	17303	AA874990	u		ESTs, Weakly similar to RIKEN cDNA 6330407G11 [Mus musculus] [M.musculus]
481	16319	AA875047	tt		ESTs, Highly similar to TCPZ_MOUSE T-complex protein 1, zeta subunit (TCP-1-zeta) (CCT-zeta) (CCT-zeta-1) [M.musculus]
504	15205	AA875263	m		ESTs, Highly similar to microspherule protein 1; nucleolar protein [Mus musculus] [M.musculus]
514	24470	AA875523	jj		ESTs, Highly similar to MLES_RAT Myosin light chain alkali, smooth-muscle isoform (MLC3SM) [R.norvegicus]
514	24471	AA875523	y		ESTs, Highly similar to MLES_RAT Myosin light chain alkali, smooth-muscle isoform (MLC3SM) [R.norvegicus]
518	18911	AA875615	s, qq		ESTs, Highly similar to PMC1_MOUSE Polymyositis/scleroderma autoantigen 1 (Autoantigen PM/Scl 1) (Polymyositis/scleroderma autoantigen 75 kDa) (PM/Scl-75) (P75 polymyositis-scleroderma overlap syndrome associated autoantigen) [M.musculus]
521	2846	AA875639	bb, ll, rr		ESTs, Weakly similar to FAS_RAT FATTY ACID SYNTHASE [INCLUDES: EC 2.3.1.38; EC 2.3.1.39; EC 2.3.1.41; EC 1.1.1.100; EC 4.2.1.61; EC 1.3.1.10; EC 3.1.2.14] [R.norvegicus]
525	5384	AA891041	vv	jun B proto-oncogene	jun B proto-oncogene
539	21951	AA891535	f, s, pp		ESTs, Highly similar to hippocampus abundant gene transcript 1 [Mus musculus] [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
542	17225	AA891553	l, nn		ESTs, Moderately similar to IF37_MOUSE Eukaryotic translation initiation factor 3 subunit 7 (eIF-3 zeta) (eIF3 p66) [M.musculus]
548	22858	AA891591	w	programmed cell death 8 (apoptosis-inducing factor)	programmed cell death 8 (apoptosis-inducing factor)
559	6535	AA891746	r		ESTs, Highly similar to endothelial differentiation-related factor 1; hypothetical protein 1-9 [Mus musculus] [M.musculus]
567	6967	AA891810	pp		ESTs, Moderately similar to g1-related zinc finger protein [Mus musculus] [M.musculus]
567	6968	AA891810	q, x, ss		ESTs, Moderately similar to g1-related zinc finger protein [Mus musculus] [M.musculus]
575	16023	AA891872	w		ESTs, Highly similar to NNTM_MOUSE NAD(P) transhydrogenase, mitochondrial precursor (Pyridine nucleotide transhydrogenase) (Nicotinamide nucleotide transhydrogenase) [M.musculus]
588	17088	AA891998	General, cc, oo, uu		ESTs, Highly similar to JC4978 oxidative stress protein A170 - mouse [M.musculus]
589	16836	AA892005	r		ESTs, Weakly similar to PGC1_RAT Membrane associated progesterone receptor component 1 (Acidic 25 kDa protein) (25-DX) [R.norvegicus]
599	19469	AA892112	r		ESTs, Weakly similar to PROD_MOUSE PROLINE OXIDASE, MITOCHONDRIAL PRECURSOR (PROLINE DEHYDROGENASE) [M.musculus]
607	3427	AA892246	nn		ESTs, Weakly similar to serine/threonine kinase 25 (yeast); Ste20-like kinase; serine/threonine kinase 25 (Ste20, yeast homolog); Yeast Sps1/Ste20-related kinase 1 [Mus musculus] [M.musculus]
618	18208	AA892318	gg, hh		ESTs, Highly similar to JC7219 nuclear protein SR-25 - mouse [M.musculus]
618	18209	AA892318	r, bb		ESTs, Highly similar to JC7219 nuclear protein SR-25 - mouse [M.musculus]
627	23194	AA892417	c	ephrin A1	ephrin A1
639	13160	AA892531	f, pp		ESTs, Weakly similar to B39066 proline-rich protein 15 - rat [R.norvegicus]
640	15154	AA892532	q, x, dd, tt		R.norvegicus (Wistar) CaBP1 mRNA
641	17468	AA892545	General		ESTs, Moderately similar to organic cationic transporter-like 2 [Mus musculus] [M.musculus]
655	20065	AA892647	c	germinal histone H4 gene	germinal histone H4 gene
660	4524	AA892759	f, s, ff, pp, qq, vv	synaptosomal-associated protein, 23 kD	synaptosomal-associated protein, 23 kD

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
670	17581	AA892835	f		ESTs, Moderately similar to BTF3_MOUSE Transcription factor BTF3 (RNA polymerase B transcription factor 3) [M.musculus]
685	3381	AA892993	jj		ESTs, Moderately similar to high mobility group protein 20 B; BRCA2-associated factor 35 [Mus musculus] [M.musculus]
689	3865	AA893065	k, p		ESTs, Weakly similar to THDE_RAT Thyrotropin-releasing hormone degrading ectoenzyme (TRH-degrading ectoenzyme) (TRH-DE) (TRH-specific aminopeptidase) (Thyroliberinase) (Pyroglutamyl-peptidase II) (PAP-II) [R.norvegicus]
693	14859	AA893173	e		ESTs, Highly similar to vacuolar protein sorting 29 (S. pombe); vacuolar protein sorting 29 (yeast); vacuolar sorting protein 29 [Mus musculus] [M.musculus]
706	16168	AA893280	z, nn		ESTs, Moderately similar to ADFP_MOUSE ADIPOPHILIN (ADIPOSE DIFFERENTIATION-RELATED PROTEIN) (ADRP) [M.musculus]
708	17900	AA893353	gg, hh, rr		ESTs, Highly similar to DNPE_MOUSE Aspartyl aminopeptidase [M.musculus]
710	4678	AA893384	v		ESTs, Moderately similar to IRF3_MOUSE Interferon regulatory factor 3 (IRF-3) [M.musculus]
715	13088	AA893495	x		ESTs, Highly similar to A40066 corticosteroid-binding globulin precursor - rat [R.norvegicus]
750	24473	AA894200	y		ESTs, Highly similar to MLES_RAT Myosin light chain alkali, smooth-muscle isoform (MLC3SM) [R.norvegicus]
751	22783	AA894207	cc		ESTs, Weakly similar to dual-specificity phosphatase [Mus musculus] [M.musculus]
766	15009	AA899106	pp	cyclin D2	cyclin D2
792	21649	AA900351	l, uu		ESTs, Weakly similar to RIKEN cDNA 3930402F23 [Mus musculus] [M.musculus]
803	3944	AA900688	ww		ESTs, Weakly similar to A45988 dentin matrix acidic phosphoprotein AG1 - rat [R.norvegicus]
808	18379	AA900993	u		ESTs, Highly similar to nuclear localization signal protein absent in velo-cardio-facial patients [Mus musculus] [M.musculus]
813	4857	AA901237	mm		ESTs, Weakly similar to CYCK_MOUSE Cyclin K [M.musculus]
839	4944	AA924405	h		ESTs, Weakly similar to NFH_MOUSE Neurofilament triplet H protein (200 kDa neurofilament protein) (Neurofilament heavy polypeptide) (NF-H) [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
846	16806	AA924591	r, nn		Rat Cyp4a locus, encoding cytochrome P450 (IVA3) mRNA, complete cds
851	4994	AA924658	k		ESTs, Moderately similar to PIN2/TRF1-interacting protein [Mus musculus] [M.musculus]
874	23159	AA925318	l, q, x, dd	I-kappa-B-beta	I-kappa-B-beta
882	22125	AA925503	ss	ribosomal protein S27	ribosomal protein S27
908	11691	AA926193	t, mm	sulfotransferase family, cytosolic, 1C, member 2	sulfotransferase family, cytosolic, 1C, member 2
911	14223	AA926352	h		ESTs, Highly similar to Trk-fused gene; TFG [Mus musculus] [M.musculus]
914	20910	AA942693	x		ESTs, Highly similar to RIKEN cDNA 5730406115 [Mus musculus] [M.musculus]
919	22677	AA942718	t, ff, pp	B cell lymphoma 2 like	B cell lymphoma 2 like
944	21600	AA943997	r		ESTs, Highly similar to C184L-22 [Mus musculus] [M.musculus]
946	2762	AA944165	c		ESTs, Highly similar to C10_MOUSE Putative C10 protein (B-cell receptor-associated protein 37) [M.musculus]
949	22017	AA944209	d		ESTs, Moderately similar to PIM1_RAT Proto-oncogene serine/threonine-protein kinase pim-1 [R.norvegicus]
962	19480	AA944442	oo		ESTs, Weakly similar to SLI3_RAT SKELETAL MUSCLE LIM-PROTEIN 3 (SLIM 3) (LIM-DOMAIN PROTEIN DRAL) (FOUR AND A HALF LIM DOMAINS PROTEIN 2) (FHL-2) [R.norvegicus]
965	2175	AA944528	ii		ESTs, Weakly similar to T9S2_MOUSE Transmembrane 9 superfamily protein member 2 precursor [M.musculus]
988	23813	AA945149	b, vv		ESTs, Moderately similar to S27161 glutathione transferase (EC 2.5.1.18) 5 - rat [R.norvegicus]
990	16635	AA945171	k		ESTs, Highly similar to APC4_RAT APOLIPOPROTEIN C-IV PRECURSOR (APO-CIV) (APOLIPOPROTEIN E-LINKED) (ECL) [R.norvegicus]
995	22029	AA945284	dd		ESTs, Moderately similar to 0806162L protein URF5 [Mus musculus] [M.musculus]
996	7683	AA945320	a		ESTs, Highly similar to IMA3_MOUSE Importin alpha-3 subunit (Karyopherin alpha-3 subunit) (Importin alpha Q2) [M.musculus]
1005	13751	AA945699	kk	synaptosomal-associated protein, 23 kD	synaptosomal-associated protein, 23 kD
1010	22639	AA945746	t		ESTs, Highly similar to SPT4_HUMAN Transcription initiation protein SPT4 homolog 1 [M.musculus]

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1020	18110	AA945932	u	Annexin A3	Annexin A3, ESTs, ESTs, Weakly similar to LURT3 annexin III - rat [R.norvegicus]
1028	21157	AA946189	l		ESTs, Moderately similar to RGP1_MOUSE Ran-GTPase activating protein 1 [M.musculus]
1032	18280	AA946361	c		ESTs, Weakly similar to CBP_MOUSE CREB-binding protein [M.musculus]
1072	17540	AA955914	f, pp		EST, EST, Moderately similar to FBRL_MOUSE Fibrillarin (Nucleolar protein 1) [M.musculus], ESTs, Highly similar to S38342 fibrillarin - mouse [M.musculus]
1075	22576	AA955983	m, dd		ESTs, Weakly similar to FLAP_RAT 5-lipoxygenase activating protein (FLAP) (MK-886-binding protein) [R.norvegicus]
1093	16578	AA957143	d		ESTs, Highly similar to DP30_MOUSE Dpy-30-like protein [M.musculus]
1093	16579	AA957143	bb		ESTs, Highly similar to DP30_MOUSE Dpy-30-like protein [M.musculus]
1095	22357	AA957264	k		Rattus norvegicus hypothetical RNA binding protein RDA288 mRNA, complete cds
1106	24156	AA957803	k		ESTs, Moderately similar to RNP_RAT Ribonuclease pancreatic precursor (RNase 1) (RNase A) (RL1) [R.norvegicus]
1120	2205	AA963808	t		ESTs, Highly similar to zinc finger RNA binding protein [Mus musculus] [M.musculus]
1122	8430	AA964033	t		Rattus norvegicus NonO/p54nrb homolog mRNA, partial cds
1133	12563	AA964533	m		ESTs, Highly similar to RIKEN cDNA 1500003K04 [Mus musculus] [M.musculus]
1145	2326	AA964892	ii		ESTs, Highly similar to CA14_MOUSE COLLAGEN ALPHA 1(IV) CHAIN PRECURSOR [M.musculus]
1169	2939	AA996885	ll		ESTs, Moderately similar to SY19_MOUSE Small inducible cytokine A19 precursor (CCL19) (Epstein-Barr virus induced molecule 1 ligand chemokine) (EB1-ligand chemokine) (ELC) [M.musculus]
1170	3054	AA996899	gg, hh	spermatogenesis associated 2	spermatogenesis associated 2
1173	2958	AA996944	ee		ESTs, Weakly similar to ring finger protein 23; RING-B box-coiled coil-B30.2 [Mus musculus] [M.musculus]
1185	16883	AA997345	dd		ESTs, Highly similar to RIKEN cDNA 1190017B19 [Mus musculus] [M.musculus]
1191	3250	AA997765	n	fibrillin-1	fibrillin-1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1210	14149	AA998172	y	platelet-activating factor acetylhydrolase alpha 2 subunit (PAF-AH alpha 2)	platelet-activating factor acetylhydrolase alpha 2 subunit (PAF-AH alpha 2)
1218	3558	AA998461	oo		ESTs, Moderately similar to gene trap ROSA 26 antisense, Philippe Soriano; gene trap ROSA 26 antisense [Mus musculus] [M.musculus]
1221	6965	AA998523	h		ESTs, Moderately similar to C54354 calnexin precursor - rat [R.norvegicus]
1228	22210	AA998690	p		ESTs, Highly similar to IF6_MOUSE Eukaryotic translation initiation factor 6 (eIF-6) (B4 integrin interactor) (CAB) (p27(BBP)) [M.musculus]
1229	20271	AA998747	cc, mm	procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI)	procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI)
1245	16304	AB008424	e, j		Rat cytochrome P-450 IID3 mRNA, complete cds
1248	13973	AB011679	y, ee		Rattus norvegicus mRNA for class I beta-tubulin, complete cds
1266	4292	AF034896	e, h		Rattus norvegicus olfactory receptor-like protein (SCR D-8) mRNA, complete cds
1269	8426	AF036335	pp		Rattus norvegicus NonO/p54nrb homolog mRNA, partial cds
1269	8427	AF036335	pp		Rattus norvegicus NonO/p54nrb homolog mRNA, partial cds
1273	17597	AF051943	oo	nucleoside diphosphate kinase type 6	nucleoside diphosphate kinase type 6
1273	17598	AF051943	oo	nucleoside diphosphate kinase type 6	nucleoside diphosphate kinase type 6
1276	15801	AF061443	p		Rattus norvegicus G protein-coupled receptor LGR4 (LGR4) mRNA, complete cds
1310	4233	AI008409	h	unknown Glu-Pro dipeptide repeat protein	unknown Glu-Pro dipeptide repeat protein
1315	24151	AI008793	u		ESTs, Highly similar to T2D5_RAT Transcription initiation factor TFIID 70 kDa subunit (TAFII-70) (TAFII-80) (TAFII80) (p80) [R.norvegicus]
1316	16701	AI008838	ff		ESTs, Highly similar to RIKEN cDNA 1300002A08 [Mus musculus] [M.musculus]
1326	9150	AI009198	h		ESTs, Highly similar to UNRI_MOUSE UNR-interacting protein (Serine-threonine kinase receptor-associated protein) [M.musculus]
1338	19092	AI009501	h, w		ESTs, Highly similar to SUI1_MOUSE Protein translation factor SUI1 homolog [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
1341	3926	AI009592	e, o		ESTs, Highly similar to molybdenum cofactor synthesis 2 [Mus musculus] [M.musculus]	
1352	8431	AI009761	y		Rattus norvegicus NonO/p54nrb homolog mRNA, partial cds	
1368	15644	AI010256	a, d, n, kk	H3 histone, family 3B	H3 histone, family 3B	
1375	15624	AI010449	qq	folistatin-related protein precursor	folistatin-related protein precursor	
1387	4203	AI011082	j		ESTs, Highly similar to IMA3_MOUSE Importin alpha-3 subunit (Karyopherin alpha-3 subunit) (Importin alpha Q2) [M.musculus]	
1388	22030	AI011177	n		ESTs, Moderately similar to 0806162L protein URF5 [Mus musculus] [M.musculus]	
1393	16702	AI011436	ss		ESTs, Highly similar to RIKEN cDNA 1300002A08 [Mus musculus] [M.musculus]	
1398	3941	AI011598	xx		ESTs, Moderately similar to LMA5_MOUSE Laminin alpha-5 chain precursor [M.musculus]	
1400	3995	AI011678	l, j	Ryudocan/syndecan 2	Ryudocan/syndecan 2	
1404	14267	AI011738	d, o		ESTs, Highly similar to P044_RAT 0-44 protein [R.norvegicus]	
1413	7104	AI012103	oo		ESTs, Moderately similar to low density lipoprotein B [Mus musculus] [M.musculus]	
1426	12766	AI012505	ee		ESTs, Highly similar to diacylglycerol O-acyltransferase 2; diacylglycerol acyltransferase 2 [Mus musculus] [M.musculus]	
1464	4251	AI013494	e	ATP-binding cassette, sub-family F (GCN20), member 1	ATP-binding cassette, sub-family F (GCN20), member 1	
1474	7310	AI013816	ff		ESTs, Moderately similar to RIKEN cDNA 0610006108 [Mus musculus] [M.musculus]	
1476	21950	AI013861	h	3-hydroxyisobutyrate dehydrogenase	3-hydroxyisobutyrate dehydrogenase	
1480	7316	AI013883	s		ESTs, Highly similar to MKR1_MOUSE Makorin 1 [M.musculus]	
1493	23530	AI014148	t, w		ESTs, Highly similar to A4B1_MOUSE Adapter-related protein complex 4 beta 1 subunit (Beta subunit of AP-4) (AP-4 adapter complex beta subunit) [M.musculus]	
1505	2699	AI029306	ii		ESTs, Highly similar to I58376 hypothetical protein unp - mouse [M.musculus]	
1515	4679	AI029847	General		ESTs, Moderately similar to IRF3_MOUSE Interferon regulatory factor 3 (IRF-3) [M.musculus]	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1546	16169	AI030932	nn, rr		ESTs, Moderately similar to ADFP_MOUSE ADIPOPHILIN (ADIPOSE DIFFERENTIATION-RELATED PROTEIN) (ADRP) [M.musculus]
1553	18002	AI043655	g, x, dd	spp-24 precursor	spp-24 precursor
1560	7913	AI043849	ff		ESTs, Weakly similar to ELL_MOUSE RNA POLYMERASE II ELONGATION FACTOR ELL (ELEVEN-NINETEEN LYSINE-RICH LEUKEMIA PROTEIN) [M.musculus]
1571	15240	AI044241	General		ESTs, Highly similar to CIDB_MOUSE Cell death activator CIDE-B (Cell death-inducing DFFA-like effector B) [M.musculus]
1590	18422	AI044827	e		ESTs, Highly similar to nitrilase 1 [Mus musculus] [M.musculus]
1602	5712	AI045154	n		ESTs, Moderately similar to ORC5_MOUSE Origin recognition complex subunit 5 [M.musculus]
1608	6241	AI045321	bb		ESTs, Weakly similar to IGEB_MOUSE IGE-BINDING PROTEIN [M.musculus]
1633	21490	AI045764	jj		ESTs, Weakly similar to I49523 tumor necrosis factor alpha-induced protein 2 - mouse [M.musculus]
1644	15241	AI058382	General		ESTs, Highly similar to CIDB_MOUSE Cell death activator CIDE-B (Cell death-inducing DFFA-like effector B) [M.musculus]
1677	965	AI059340	l	huntingtin-associated protein interacting protein (duo)	huntingtin-associated protein interacting protein (duo)
1684	8347	AI059519	dd		ESTs, Weakly similar to EGRT epidermal growth factor precursor - rat [R.norvegicus]
1698	900	AI059963	ii, jj	vacuolar protein sorting homolog r-vps33b	vacuolar protein sorting homolog r-vps33b
1709	8590	AI060207	nn		ESTs, Highly similar to splicing factor 3b, subunit 1, 155 kDa [Mus musculus] [M.musculus]
1718	9054	AI070138	dd		ESTs, Moderately similar to RIKEN cDNA 1110028N05 [Mus musculus] [M.musculus]
1729	17871	AI070601	ii		ESTs, Weakly similar to NOE1_RAT Noelin precursor (Neuronal olfactomedin-related ER localized protein) (Olfactomedin 1) (Pancortin) (1B426B) [R.norvegicus]
1789	8856	AI072402	b, h, u		ESTs, Weakly similar to S42077 finger protein 30 - mouse [M.musculus]
1795	12863	AI072467	nn		ESTs, Highly similar to 2207230A transcription factor ATBF1 [Mus musculus] [M.musculus]
1806	9399	AI072812	a		ESTs, Highly similar to glioma-amplified sequence-41 [Mus musculus] [M.musculus]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
1811	15308	AI072896	nn		ESTs, Weakly similar to catenin delta 2; neural plakophilin-related arm-repeat protein; catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein); neurojungin [Mus musculus] [M.musculus]	
1817	20834	AI073056	cc	kinesin light chain 1	kinesin light chain 1	
1854	15080	AI102045	l		ESTs, Moderately similar to NIF1_MOUSE Nuclear LIM interactor-interacting factor 1 (NLI-interacting factor 1) (NIF-like protein) [M.musculus]	
1864	13892	AI102438	gg, hh		ESTs, Highly similar to CNIH_MOUSE CORNICHON HOMOLOG [M.musculus]	
1866	15218	AI102495	cc		ESTs, Moderately similar to PNPH_MOUSE Purine nucleoside phosphorylase (Inosine phosphorylase) (PNP) [M.musculus]	
1873	5910	AI102689	k		ESTs, Highly similar to RPP20 protein [Mus musculus] [M.musculus]	
1886	18607	AI103105	z		ESTs, Highly similar to RL12_RAT 60S RIBOSOMAL PROTEIN L12 [R.norvegicus]	
1907	2297	AI103602	General		ESTs, Highly similar to SAP3_MOUSE Ganglioside GM2 activator precursor (GM2-AP) (Cerebroside sulfate activator protein) (Shingolipid activator protein 3) (SAP-3) [M.musculus]	
1909	13317	AI103637	ee		ESTs, Moderately similar to RIKEN cDNA 2810411G23 [Mus musculus] [M.musculus]	
1918	4402	AI103874	kk		ESTs, Weakly similar to FKB1_RAT FK506-BINDING PROTEIN (FKBP-12) (PEPTIDYL-PROLYL CIS-TRANS ISOMERASE) (PPIASE) (ROTAMASE) (IMMUNOPHILIN FKBP12) [R.norvegicus]	
1922	20833	AI104035	mm		ESTs, Highly similar to COXG_MOUSE Cytochrome c oxidase polypeptide VIb (AED) [M.musculus]	
1928	8372	AI104256	pp		ESTs, Highly similar to MUS81 endonuclease [Mus musculus] [M.musculus]	
1931	22211	AI104279	tt		ESTs, Highly similar to IF6_MOUSE Eukaryotic translation initiation factor 6 (eIF-6) (B4 integrin interactor) (CAB) (p27(BBP)) [M.musculus]	
1946	22822	AI104679	p, z		ESTs, Moderately similar to RIKEN cDNA 2310016K22; RIKEN cDNA 2310016K22 gene [Mus musculus] [M.musculus]	
1958	6225	AI105105	ss		ESTs, Highly similar to tangerin [Mus musculus] [M.musculus]	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1959	21253	AI105110	ii, ww		ESTs, Highly similar to S58180 sui1 protein - mouse (fragment) [M.musculus]
1960	18742	AI105131	bb, qq		ESTs, Highly similar to lung alpha/beta hydrolase 1; alpha/beta hydrolase-1 [Mus musculus] [M.musculus]
1986	7266	AI112237	d, kk, nn		ESTs, Moderately similar to RIKEN cDNA 1810011O01 [Mus musculus] [M.musculus]
1987	9575	AI112250	General, kk, nn	protein tyrosine phosphatase type IVA, member 2	protein tyrosine phosphatase type IVA, member 2
1989	2501	AI112343	f, nn, ww	ubiquitin fusion degradation 1-like	ubiquitin fusion degradation 1-like
1990	23099	AI112365	y, nn, ww		ESTs, Highly similar to MGN_HUMAN Mago nashi protein homolog [M.musculus]
1995	2296	AI112979	q, x, General		ESTs, Highly similar to SAP3_MOUSE Ganglioside GM2 activator precursor (GM2-AP) (Cerebroside sulfate activator protein) (Shingolipid activator protein 3) (SAP-3) [M.musculus]
2004	23653	AI136396	bb	farnesyltransferase beta subunit	farnesyltransferase beta subunit
2013	24212	AI136747	c		ESTs, Highly similar to H33_HUMAN Histone H3.3 (H3.A) (H3.B) (H3.3Q) [M.musculus]
2016	13090	AI136977	m, ll		ESTs, Highly similar to S14538 transition protein - mouse [M.musculus]
2016	13091	AI136977	v		ESTs, Highly similar to S14538 transition protein - mouse [M.musculus]
2028	11270	AI137480	nn		ESTs, Weakly similar to A39066 proline-rich protein 4 - rat [R.norvegicus]
2030	18943	AI137495	d, ll		ESTs, Highly similar to H2A1_RAT Histone H2A.1 [R.norvegicus]
2065	19034	AI145768	u		ESTs, Weakly similar to A55817 cyclin-dependent kinase p130-PITSLRE - mouse [M.musculus]
2071	23224	AI146033	h, z, ll	translocase of inner mitochondrial membrane 9 homolog (yeast)	translocase of inner mitochondrial membrane 9 homolog (yeast)
2077	11693	AI168953	mm	sulfotransferase family, cytosolic, 1C, member 2	sulfotransferase family, cytosolic, 1C, member 2
2080	16580	AI168989	oo		ESTs, Highly similar to DP30_MOUSE Dpy-30-like protein [M.musculus]
2097	6732	AI169269	kk		ESTs, Highly similar to dim1 (S. pombe) [Mus musculus] [M.musculus]
2099	16879	AI169284	ww		ESTs, Highly similar to AR61_MOUSE ARL-6 interacting protein-1 (Aip-1) (TBX2 protein) [M.musculus]
2101	24213	AI169289	c		ESTs, Highly similar to H33_HUMAN Histone H3.3 (H3.A) (H3.B) (H3.3Q) [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2114	21660	AI169751	b, dd		Rattus norvegicus interferon-inducible protein variant 10 mRNA, complete cds
2116	3909	AI169903	l		ESTs, Moderately similar to lymphocyte antigen 96 [Mus musculus] [M.musculus]
2122	18367	AI170064	j		ESTs, Moderately similar to JC7279 Down syndrome critical region gene-2 (DSCR2) protein - mouse [M.musculus]
2134	23966	AI170442	t, mm		ESTs, Highly similar to JE0223 destrin - rat [R.norvegicus]
2154	16170	AI170894	ii		ESTs, Moderately similar to ADFP_MOUSE ADIPOPHILIN (ADIPOSE DIFFERENTIATION-RELATED PROTEIN) (ADRP) [M.musculus]
2167	20905	AI171273	t, mm		ESTs, Moderately similar to C54819 actin-capping protein beta chain, splice form 2 - mouse [M.musculus]
2171	17529	AI171460	u		ESTs, Weakly similar to HCD2_RAT 3-hydroxyacyl-CoA dehydrogenase type II (Type II HADH) (Endoplasmic reticulum-associated amyloid beta-peptide binding protein) [R.norvegicus]
2175	15684	AI171535	n, General		ESTs, Weakly similar to PAB1_MOUSE Polyadenylate-binding protein 1 (Poly(A)-binding protein 1) (PABP 1) (PABP1) [M.musculus]
2183	6582	AI171726	bb		ESTs, Weakly similar to I67424 hERR-2 homolog - rat (fragment) [R.norvegicus]
2196	7733	AI172086	z		ESTs, Highly similar to SH3 domain binding glutamic acid-rich protein-like 3 [Mus musculus] [M.musculus]
2197	9537	AI172097	y	heat shock transcription factor 1	heat shock transcription factor 1
2200	1398	AI172105	kk		ESTs, Highly similar to potassium channel modulatory factor DEBT-91; clone DEBT-91 [Mus musculus] [M.musculus]
2207	6147	AI172236	u		ESTs, Highly similar to RIKEN cDNA 1110063B05 [Mus musculus] [M.musculus]
2210	2140	AI172272	gg, hh		ESTs, Weakly similar to A53004 transcription elongation factor S-II - rat [R.norvegicus]
2211	4193	AI172274	dd		ESTs, Weakly similar to A Chain A, 2-Enoyl-CoA Hydratase, Data Collected At 100 K, Ph 6.5 [R.norvegicus]
2225	13098	AI172610	c, ii		ESTs, Moderately similar to STT3_MOUSE OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT HOMOLOG (B5) (INTEGRAL MEMBRANE PROTEIN 1) [M.musculus]
2231	4926	AI175034	ll		ESTs, Highly similar to RIKEN cDNA 2410002O22 [Mus musculus] [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2243	18507	AI175551	z		ESTs, Highly similar to EF1B_MOUSE Elongation factor 1-beta (EF-1-beta) [M.musculus]
2251	24214	AI175794	s		ESTs, Highly similar to H33_HUMAN Histone H3.3 (H3.A) (H3.B) (H3.3Q) [M.musculus]
2252	19004	AI175875	ii		Rattus norvegicus Sprague-Dawley lipid-binding protein mRNA, complete cds
2253	7647	AI175991	d		ESTs, Moderately similar to minichromosome maintenance deficient (S. cerevisiae) 3-associate; nuclear protein GANP [Mus musculus] [M.musculus]
2258	24745	AI176101	d, j		ESTs, Highly similar to MTRP_MOUSE Lysosomal-associated transmembrane protein 4A (Golgi 4-transmembrane spanning transporter) (Mouse transporter protein) (MTP) [M.musculus]
2276	19006	AI176393	f		Rattus norvegicus Sprague-Dawley lipid-binding protein mRNA, complete cds
2278	15191	AI176456	t, w		ESTs, Highly similar to SMRT2 metallothionein II - rat [R.norvegicus]
2281	21661	AI176479	y, nn		Rattus norvegicus interferon-inducible protein variant 10 mRNA, complete cds
2283	2993	AI176492	j, ii		ESTs, Highly similar to eukaryotic translation initiation factor 3, subunit 2 (beta, 36kD); TGF-beta receptor binding protein; DNA segment, Chr 4, ERATO Doi 632, expressed [Mus musculus] [M.musculus]
2294	3034	AI176613	b		ESTs, Moderately similar to PEX7_MOUSE PEROXISOMAL TARGETING SIGNAL 2 RECEPTOR (PTS2 RECEPTOR) (PEROXIN 7) [M.musculus]
2300	23403	AI176714	bb		ESTs, Highly similar to CHD1_MOUSE CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 1 (CHD-1) [M.musculus]
2317	3862	AI177052	nn, tt	Nuclear pore complex protein	Nuclear pore complex protein
2325	14083	AI177181	n		ESTs, Weakly similar to FYV1_MOUSE FYVE finger-containing phosphoinositide kinase (1-phosphatidylinositol-4-phosphate kinase) (PIP5K) (PtdIns(4)P-5-kinase) (p235) [M.musculus]
2337	14910	AI177631	z		ESTs, Moderately similar to MYPS_RAT MYOSIN-BINDING PROTEIN C, SLOW-TYPE (SLOW MYBP-C) (C-PROTEIN, SKELETAL MUSCLE SLOW-ISOFORM) [R.norvegicus]
2349	1131	AI177919	nn, pp, ww		Rat cytochrome P450CMF1b mRNA, complete cds

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2351	19184	AI178025	d		ESTs, Highly similar to TGIF_MOUSE 5'-TG-3' INTERACTING FACTOR (HOMEBOX PROTEIN TGIF) [M.musculus]
2354	13389	AI178104	d		ESTs, Highly similar to RIKEN cDNA 2400009B11 [Mus musculus] [M.musculus]
2381	15091	AI178740	f		ESTs, Highly similar to A56418 transcription factor delta - mouse [M.musculus]
2383	2825	AI178752	l, nn		ESTs, Highly similar to CLN3_MOUSE CLN3 PROTEIN (BATTENIN) [M.musculus]
2397	19041	AI179049	oo		ESTs, Weakly similar to RN12_MOUSE RING finger protein 12 (LIM domain interacting RING finger protein) (RING finger LIM domain-binding protein) (R-LIM) [M.musculus]
2401	5887	AI179099	j, o		ESTs, Moderately similar to VNN1_MOUSE Pantetheinase precursor (Pantetheine hydrolase) (Vascular non-inflammatory molecule 1) (Vanin 1) [M.musculus]
2411	16703	AI179300	ff		ESTs, Highly similar to RIKEN cDNA 1300002A08 [Mus musculus] [M.musculus]
2436	14803	AI179906	r		ESTs, Highly similar to transformed mouse 3T3 cell double minute 4 [Mus musculus] [M.musculus]
2441	2099	AI180015	w, tt	ribosomal protein L14	ribosomal protein L14
2443	9821	AI180114	ss		ESTs, Highly similar to NIP2_MOUSE BCL2/ADENOVIRUS E1B 19-KDA PROTEIN-INTERACTING PROTEIN 2 [M.musculus]
2462	22366	AI227743	tt		ESTs, Highly similar to Fas-activated serine/threonine kinase [Mus musculus] [M.musculus]
2470	14230	AI228064	y.		ESTs, Weakly similar to A47179 homeotic protein LH-2 - rat [R.norvegicus]
2472	16970	AI228112	tt	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform
2479	22915	AI228299	m, ll		ESTs, Highly similar to craniofacial development protein 1 [Mus musculus] [M.musculus]
2483	22455	AI228524	s		ESTs, Moderately similar to RIKEN cDNA 1700021F05 [Mus musculus] [M.musculus]
2495	15078	AI228830	s	stearoyl-Coenzyme A desaturase 2	Rat DNA polymerase alpha mRNA, 3' end, stearoyl-Coenzyme A desaturase 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2521	13977	AI229707	j, bb, nn		Rattus norvegicus mRNA for class I beta-tubulin, complete cds
2545	13555	AI230547	d		ESTs, Moderately similar to 1920362A tumor suppressor gene mgl1 [Mus musculus] [M.musculus]
2554	22387	AI230753	a, tt		ESTs, Highly similar to BI3_MOUSE Brain protein I3 [M.musculus]
2560	14224	AI230956	rr		ESTs, Highly similar to Trk-fused gene; TFG [Mus musculus] [M.musculus]
2563	2299	AI231094	w		ESTs, Highly similar to SAP3_MOUSE Ganglioside GM2 activator precursor (GM2-AP) (Cerebroside sulfate activator protein) (Shingolipid activator protein 3) (SAP-3) [M.musculus]
2575	13092	AI231547	oo		ESTs, Highly similar to S14538 transition protein - mouse [M.musculus]
2578	4703	AI231606	k, r		ESTs, Moderately similar to RIKEN cDNA 6330579B17 [Mus musculus] [M.musculus]
2583	17297	AI231785	ii, rr		ESTs, Moderately similar to Niemann Pick type C2 [Mus musculus] [M.musculus]
2595	14102	AI232131	rr		ESTs, Highly similar to I48253 beta-N-acetylhexosaminidase (EC 3.2.1.52) alpha chain precursor - mouse [M.musculus]
2596	19274	AI232135	ii		ESTs, Highly similar to COG2_MOUSE Coatomer gamma-2 subunit (Gamma-2 coat protein) (Gamma-2 COP) [M.musculus]
2602	409	AI232268	p, r	low density lipoprotein receptor-related protein associated protein 1	low density lipoprotein receptor-related protein associated protein 1
2608	15582	AI232320	k, o, oo		Rat mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase mRNA, complete cds
2618	14547	AI232431	z, ww		ESTs, Highly similar to TLP1_MOUSE TATA BOX BINDING PROTEIN-LIKE PROTEIN 1 (TBP-LIKE PROTEIN 1) (21-KDA TBP-LIKE PROTEIN) [M.musculus]
2622	8709	AI232534	ii		ESTs, Weakly similar to DnaJ (Hsp40) homolog, subfamily B, member 3; heat shock protein, DNAJ-like 3 [Mus musculus] [M.musculus]
2640	14098	AI233114	j		ESTs, Moderately similar to S29510 ubiquinol-cytochrome-c reductase (EC 1.10.2.2) core protein II precursor - rat [R.norvegicus]
2652	10378	AI233300	i		ESTs, Moderately similar to CO5_MOUSE Complement C5 precursor (Hemolytic complement) [Contains: C5A anaphylatoxin] [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
2676	15685	AI233870	m		ESTs, Weakly similar to PAB1_MOUSE Polyadenylate-binding protein 1 (Poly(A)-binding protein 1) (PABP 1) (PABP1) [M.musculus]	
2700	15034	AI235054	s		ESTs, Weakly similar to RIKEN cDNA 0610008N23 [Mus musculus] [M.musculus]	
2703	15004	AI235224	k	tissue inhibitor of metalloproteinase 1	tissue inhibitor of metalloproteinase 1	
2711	15858	AI235455	rr		ESTs, Moderately similar to B54745 beta-N-acetylhexosaminidase (EC 3.2.1.52) beta chain - mouse [M.musculus]	
2728	3617	AI236021	d		ESTs, Highly similar to JC4857 hepatocarcinogenesis-related transcription factor - rat [R.norvegicus]	
2731	20788	AI236053	qq	acyl-coenzyme A:cholesterol acyltransferase	acyl-coenzyme A:cholesterol acyltransferase	
2733	11465	AI236084	q		ESTs, Moderately similar to TNFR9_MOUSE Tumor necrosis factor receptor superfamily member 9 precursor (4-1BB ligand receptor) (T-cell antigen 4-1BB) (CD137 antigen) [M.musculus]	
2736	9543	AI236164	k		ESTs, Moderately similar to A41641 mannosyl-oligosaccharide 1,3-1,6-alpha-mannosidase (EC 3.2.1.114) - mouse [M.musculus]	
2747	19035	AI236576	pp, rr		ESTs, Highly similar to S06147 GTP-binding protein rab1B - rat [R.norvegicus]	
2752	7691	AI236611	v, x, bb	isopentenyl-diphosphate delta isomerase	isopentenyl-diphosphate delta isomerase	
2764	15850	AI236795	b, tt		ESTs, ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus]	
2769	11404	AI237002	v, w, bb	spermidine synthase	spermidine synthase	
2777	14841	AI237372	v		ESTs, Highly similar to RTC1_MOUSE RNA 3'-terminal phosphate cyclase (RNA-3'-phosphate cyclase) (RNA cyclase) [M.musculus]	
2785	3489	AI237620	n		ESTs, Highly similar to IF36_HUMAN Eukaryotic translation initiation factor 3 subunit 6 (eIF-3 p48) (Mammary tumor-associated protein INT-6) (Viral integration site protein INT-6) [M.musculus]	
2786	18854	AI237636	l		ESTs, Weakly similar to CNE6_MOUSE Copine VI (Neuronal-copine) (N-copine) [M.musculus]	
2787	14837	AI237638	k, mm		EST, Highly similar to VAT1_MOUSE Synaptic vesicle membrane protein VAT-1 homolog [M.musculus]	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2807	17108	AI639017	bb		ESTs, Weakly similar to T17453 ERG-associated protein ESET - mouse [M.musculus]
2813	18504	AI639044	cc		ESTs, Moderately similar to T4S9_MOUSE TRANSMEMBRANE 4 SUPERFAMILY, MEMBER 8 (TETRASPANIN 5) (SPAN-5) [M.musculus]
2848	19152	AI639387	c		ESTs, Highly similar to RT06_MOUSE Mitochondrial 28S ribosomal protein S6 (MRP-S6) [M.musculus]
2868	23220	AJ000347	pp	3'(2'),5'-bisphosphate nucleotidase	3'(2'),5'-bisphosphate nucleotidase
2870	14332	AJ001044	q, ff	tumor-associated calcium signal transducer 1	tumor-associated calcium signal transducer 1
2873	9866	AJ005424	ss	mitogen-activated protein kinase 7	mitogen-activated protein kinase 7
2873	9867	AJ005424	tt	mitogen-activated protein kinase 7	mitogen-activated protein kinase 7
2883	19053	D12770	j, o	solute carrier family 25 (mitochondrial adenine nucleotide translocator) member 4	solute carrier family 25 (mitochondrial adenine nucleotide translocator) member 4
2930	16986	H33020	bb		ESTs, Highly similar to EF1G_MOUSE Elongation factor 1-gamma (EF-1-gamma) (eEF-1B gamma) [M.musculus]
2953	23485	K02816	ww	pR-ET2 encoded oncodevelopmental protein	pR-ET2 encoded oncodevelopmental protein
2953	23486	K02816	kk, ww	pR-ET2 encoded oncodevelopmental protein	pR-ET2 encoded oncodevelopmental protein
2976	13499	L26267	s	nuclear factor kappa B p105 subunit	nuclear factor kappa B p105 subunit
2994	19256	M15562	xx		Rat (diabetic BB) MHC class II alpha chain RT1.D alpha (u)
3008	11956	M28255	ff	cytochrome c oxidase, subunit VIIa	cytochrome c oxidase, subunit VIIa
3009	17123	M29295	nn, tt	small nuclear ribonucleoprotein, polypeptides B and B1	small nuclear ribonucleoprotein polypeptides B and B1
3013	15579	M33648	d, k, l, o, ff, oo, ss		Rat mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase mRNA, complete cds
3013	15580	M33648	k, l, o, ff		Rat mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase mRNA, complete cds
3014	16807	M33936	k, o, v, ss, uu, xx		Rat Cyp4a locus, encoding cytochrome P450 (IVA3) mRNA, complete cds
3018	17145	M38566	b, qq	Serine protease inhibitor	Serine protease inhibitor
3029	20836	M75148	l, General, qq	kinesin light chain 1	kinesin light chain 1



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3030	1138	M76740	cc	Mucin3	Mucin3
3035	24651	M83678	u, y, nn	RAB13	RAB13
3041	25467	M93297	t	ornithine aminotransferase	ornithine aminotransferase
3042	3424	M94557	o	Single-stranded DNA-binding protein	ESTs, Highly similar to SSB_RAT SINGLE-STRANDED DNA-BINDING PROTEIN, MITOCHONDRIAL PRECURSOR (MT-SSB) (MTSSB) (P16) [R.norvegicus]
3080	17292	NM_012584	General, cc	Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase	Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase
3086	382	NM_012599	a, d, gg, hh	Mannose binding protein A, serum	Mannose binding protein A, serum
3101	17147	NM_012657	e, n, r, ii	Serine protease inhibitor	Serine protease inhibitor
3101	17148	NM_012657	r, ii	Serine protease inhibitor	Serine protease inhibitor
3108	1514	NM_012678	b, t	Tropomyosin 4	Tropomyosin 4
3117	1602	NM_012697	dd, mm	Organic cation transporter	Organic cation transporter
3124	18730	NM_012730	a, j	Cytochrome P450, subfamily IID2	Cytochrome P450, subfamily IID2
3134	13731	NM_012755	bb	Fyn proto-oncogene	Fyn proto-oncogene
3136	17257	NM_012766	x, ll, rr, ww	Cyclin D3	Cyclin D3
3136	17258	NM_012766	l, k, nn, ww	Cyclin D3	Cyclin D3
3215	17174	NM_013030	gg, hh		R.norvegicus ASI mRNA for mammalian equivalent of bacterial large ribosomal subunit protein L22
3227	1859	NM_013063	p, y, nn	ADP-ribosyltransferase (NAD <sup>+</sup> ; poly (ADP-ribose) polymerase)	ADP-ribosyltransferase (NAD <sup>+</sup> ; poly (ADP-ribose) polymerase)
3228	675	NM_013066	g	Microtubule-associated protein 2	Microtubule-associated protein 2
3229	19335	NM_013067	x, dd	Ribophorin I	Ribophorin I
3234	1529	NM_013082	b, e, h, l, General	Ryudocan/syndecan 2	Ryudocan/syndecan 2
3241	1793	NM_013105	jj	Cytochrome P450, subfamily IIIA, polypeptide 3	Cytochrome P450, subfamily IIIA, polypeptide 3
3241	1794	NM_013105	jj	Cytochrome P450, subfamily IIIA, polypeptide 3	Cytochrome P450, subfamily IIIA, polypeptide 3
3241	1795	NM_013105	jj	Cytochrome P450, subfamily IIIA, polypeptide 3	Cytochrome P450, subfamily IIIA, polypeptide 3
3241	1796	NM_013105	v	Cytochrome P450, subfamily IIIA, polypeptide 3	Cytochrome P450, subfamily IIIA, polypeptide 3
3241	1797	NM_013105	j, r, jj	Cytochrome P450, subfamily IIIA, polypeptide 3	Cytochrome P450, subfamily IIIA, polypeptide 3, Rattus norvegicus Sprague Dawley testosterone 6-beta-hydroxylase, cytochrome P450/6-beta-A, (CYP3A2) mRNA, complete cds
3243	428	NM_013112	x	Apolipoprotein A-II	Apolipoprotein A-II

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3244	23709	NM_013113	l, w, z	ATPase Na+/K+ transporting beta 1 polypeptide	ATPase Na+/K+ transporting beta 1 polypeptide
3244	23710	NM_013113	ww	ATPase Na+/K+ transporting beta 1 polypeptide	ATPase Na+/K+ transporting beta 1 polypeptide
3245	22582	NM_013120	b, kk	Glucokinase regulatory protein	Glucokinase regulatory protein
3247	16650	NM_013132	a	Annexin V	Annexin V
3249	20150	NM_013135	oo	RAS p21 protein activator	RAS p21 protein activator
3252	16982	NM_013144	f, r, z, ee, ff, rr	Insulin-like growth factor binding protein 1	Insulin-like growth factor binding protein 1
3253	46	NM_013151	l, vv	Plasminogen activator, tissue	Plasminogen activator, tissue
3257	1309	NM_013159	e, bb, oo	Insulin degrading enzyme	Insulin degrading enzyme
3262	1451	NM_013168	tt	Hydroxymethylbilane synthase	Hydroxymethylbilane synthase
3262	1452	NM_013168	ii	Hydroxymethylbilane synthase	Hydroxymethylbilane synthase
3264	24774	NM_013176	uu	Transcription factor 12	Transcription factor 12
3267	1258	NM_013185	o	Hemopoietic cell tyrosine kinase	Hemopoietic cell tyrosine kinase
3268	1255	NM_013189	ff, xx	Guanine nucleotide binding protein, alpha	Guanine nucleotide binding protein, alpha
3269	1300	NM_013190	t	Phosphofructokinase, liver, B-type	Phosphofructokinase, liver, B-type
3271	21396	NM_013198	k, jj	Monoamine oxidase B	Monoamine oxidase B
3276	20826	NM_013218	gg, hh	adenylate kinase 3	adenylate kinase 3
3277	18313	NM_013220	x	cardiac ankyrin repeat protein	cardiac ankyrin repeat protein
3279	1567	NM_013223	p, s	hemin-sensitive initiation factor 2a kinase	hemin-sensitive initiation factor 2a kinase
3280	815	NM_013224	h, l, ll, oo	ribosomal protein S26	ribosomal protein S26
3297	80	NM_017021	cc	Interleukin 9 receptor	Interleukin 9 receptor
3315	1523	NM_017079	General	CD1D antigen	CD1D antigen
3319	1968	NM_017091	g	Proprotein convertase subtilisin/kexin type 2	Proprotein convertase subtilisin/kexin type 2
3322	20653	NM_017104	s	Colony stimulating factor 3 (granulocyte)	Colony stimulating factor 3 (granulocyte)
3343	2968	NM_017158	n	cytochrome P450, 2c39	cytochrome P450, 2c39
3343	2970	NM_017158	f, rr, ss	cytochrome P450, 2c39	cytochrome P450, 2c39
3348	20702	NM_017166	General, dd, oo, pp	Leukemia-associated cytosolic phosphoprotein stathmin	Leukemia-associated cytosolic phosphoprotein stathmin
3366	18445	NM_017220	y	growth and transformation-dependent protein	growth and transformation-dependent protein
3407	18142	NM_017314	r	ubiquitin C	ubiquitin C
3409	1894	NM_017320	ii, nn, pp	cathepsin S	cathepsin S
3410	17516	NM_017321	o, ii, jj, tt	iron-responsive element-binding protein	iron-responsive element-binding protein
3411	24766	NM_017322	k	stress activated protein kinase alpha II	stress activated protein kinase alpha II
3411	24767	NM_017322	u	stress activated protein kinase alpha II	stress activated protein kinase alpha II
3413	24247	NM_017332	n, rr	fatty acid synthase	fatty acid synthase
3414	2000	NM_017333	g	endothelin receptor	endothelin receptor
3415	25515	NM_017339	g	isl-1=homeobox	isl-1=homeobox

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3417	16381	NM_017343	l, y, z, General, ee	myosin regulatory light chain	myosin regulatory light chain
3417	16382	NM_017343	z	myosin regulatory light chain	myosin regulatory light chain
3418	520	NM_017345	n	neural cell adhesion molecule L1	neural cell adhesion molecule L1
3424	20778	NM_019124	a, ww	rabaptin 5	rabaptin 5
3434	17304	NM_019144	d, p, gg, hh	Acid phosphatase 5, tartrate resistant	Acid phosphatase 5, tartrate resistant
3455	1386	NM_019226	d	dynein, cytoplasmic, heavy chain 1	dynein, cytoplasmic, heavy chain 1
3478	10016	NM_019289	v, x.	Actin-related protein complex 1b	Actin-related protein complex 1b
3479	23678	NM_019290	l, u, General	B-cell translocation gene 3	B-cell translocation gene 3
3479	23679	NM_019290	General, ss	B-cell translocation gene 3	B-cell translocation gene 3
3481	17507	NM_019299	w	clathrin, heavy polypeptide (Hc)	clathrin, heavy polypeptide (Hc)
3484	51	NM_019335	u	Protein kinase, interferon-inducible double stranded RNA dependent	Protein kinase, interferon-inducible double stranded RNA dependent
3484	52	NM_019335	u	Protein kinase, interferon-inducible double stranded RNA dependent	Protein kinase, interferon-inducible double stranded RNA dependent
3488	4592	NM_019356	h	eukaryotic translation initiation factor 2, subunit 1 (alpha )	eukaryotic translation initiation factor 2, subunit 1 (alpha )
3494	20057	NM_019370	General, nn	alkaline phosphodiesterase	alkaline phosphodiesterase
3496	15066	NM_019373	cc, rr	apolipoprotein M	apolipoprotein M
3502	24066	NM_019384	d, kk	CTD-binding SR-like rA1	CTD-binding SR-like rA1
3503	16	NM_019386	b, l, q, General, dd, kk	tissue-type transglutaminase	tissue-type transglutaminase
3505	20716	NM_019623	b, l, General, gg, hh, ll, uu	cytochrome P450 4F1	cytochrome P450 4F1
3511	18702	NM_020080	oo	nuclear protein E3-3 orf1	nuclear protein E3-3 orf1
3514	13485	NM_020306	d, bb	a disintegrin and metalloproteinase domain 17	a disintegrin and metalloproteinase domain 17
3514	13486	NM_020306	s	a disintegrin and metalloproteinase domain 17	a disintegrin and metalloproteinase domain 17
3517	18727	NM_021577	g, m	argininosuccinate lyase	argininosuccinate lyase
3520	18544	NM_021592	e	eHand protein	eHand protein
3525	19696	NM_021699	l, nn	serine/threonine kinase	serine/threonine kinase
3528	19710	NM_021744	bb	CD14 antigen	CD14 antigen

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3530	19824	NM_021750	c, General, kk	cysteine-sulfinate decarboxylase	cysteine-sulfinate decarboxylase
3530	19825	NM_021750	l, General, dd, ii, qq, vv	cysteine-sulfinate decarboxylase	cysteine-sulfinate decarboxylase
3531	20035	NM_021754	qq	Nopp140 associated protein	Nopp140 associated protein
3531	20036	NM_021754	r	Nopp140 associated protein	Nopp140 associated protein
3533	17884	NM_021765	q	beta prime COP	beta prime COP
3533	17885	NM_021765	q	beta prime COP	beta prime COP
3536	20161	NM_021836	oo	jun B proto-oncogene	jun B proto-oncogene
3537	18839	NM_021840	g	histone 2a	histone 2a
3538	20129	NM_021850	gg, hh	Bcl-w protein	Bcl-w protein
3542	17100	NM_022179	d, h, l, ee	Hexokinase 3	Hexokinase 3
3542	17101	NM_022179	b, General, ii, kk, ss	Hexokinase 3	Hexokinase 3
3545	20194	NM_022192	v	putative protein kinase C inhibitor	putative protein kinase C inhibitor
3546	20204	NM_022196	f	leukemia inhibitory factor	leukemia inhibitory factor
3548	20269	NM_022214	bb	CXC chemokine LIX	CXC chemokine LIX
3549	20299	NM_022220	j	L-gulono-gamma-lactone oxidase	L-gulono-gamma-lactone oxidase
3551	762	NM_022245	t, mm	cytochrome b5	cytochrome b5
3552	6585	NM_022266	y	connective tissue growth factor	connective tissue growth factor
3557	17158	NM_022298	c, f, vv, xx	alpha-tubulin	alpha-tubulin
3557	17160	NM_022298	nn	alpha-tubulin	alpha-tubulin
3557	17161	NM_022298	y, nn, tt	alpha-tubulin	alpha-tubulin
3560	23980	NM_022383	w	cyclase-associated protein homologue	cyclase-associated protein homologue
3563	12082	NM_022389	jj	7-dehydrocholesterol reductase	7-dehydrocholesterol reductase
3563	12083	NM_022389	jj	7-dehydrocholesterol reductase	7-dehydrocholesterol reductase
3564	13479	NM_022390	e, y, xx	quinoid dihydropteridine reductase	quinoid dihydropteridine reductase
3564	13480	NM_022390	r, ss	quinoid dihydropteridine reductase	quinoid dihydropteridine reductase
3566	23060	NM_022394	u	scaffold attachment factor B	scaffold attachment factor B
3578	1610	NM_022509	ee, gg, hh	survival motor neuron	survival motor neuron
3578	1611	NM_022509	h, l	survival motor neuron	survival motor neuron
3580	2384	NM_022513	b, k, l, qq, uu, vv	dopa/tyrosine sulfotransferase	dopa/tyrosine sulfotransferase
3584	4145	NM_022518	j, ii	ADP-ribosylation factor 1	ADP-ribosylation factor 1
3584	4153	NM_022518	bb	ADP-ribosylation factor 1	ADP-ribosylation factor 1
3586	4242	NM_022521	xx	ornithine aminotransferase	ornithine aminotransferase
3587	4256	NM_022522	oo, uu	caspase 2	caspase 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
3587	4257	NM_022522	k, mm	caspase 2	caspase 2	
3588	4412	NM_022523	j, x	CD151 antigen	CD151 antigen	
3597	20803	NM_022592	d, q	transketolase	transketolase	
3600	20944	NM_022597	m, ff, ii	cathepsin B	cathepsin B	
3601	20960	NM_022598	a	cellular nucleic acid binding protein	cellular nucleic acid binding protein	
3604	21115	NM_022602	r, z, ss	serine threonine kinase pim3	serine threonine kinase pim3	
3606	21211	NM_022607	t, nn	MIPP65 protein	MIPP65 protein	
3614	20506	NM_022686	ii	germinal histone H4 gene	germinal histone H4 gene	
3615	20509	NM_022689	f, cc, dd, ff	synaptosomal-associated protein, 23 kD	synaptosomal-associated protein, 23 kD	
3616	17586	NM_022694	u, ff	p105 coactivator	p105 coactivator	
3616	17587	NM_022694	u, w	p105 coactivator	p105 coactivator	
3618	17757	NM_022698	y	bcl-2 associated death agonist	bcl-2 associated death agonist	
3619	17808	NM_022699	h, ll	ribosomal protein L30	ribosomal protein L30	
3624	24540	NM_022707	u	phospholamban	phospholamban	
3625	53	NM_022714	v, jj	corticotropin-releasing factor receptor subtype 2	corticotropin-releasing factor receptor subtype 2	
3628	194	NM_022861	s	Munc13-1	Munc13-1	
3632	2006	NM_022936	o, xx	cytosolic epoxide hydrolase	cytosolic epoxide hydrolase	
3632	2007	NM_022936	o, s	cytosolic epoxide hydrolase	cytosolic epoxide hydrolase	
3632	2008	NM_022936	o, s, xx	cytosolic epoxide hydrolase	cytosolic epoxide hydrolase	
3632	2009	NM_022936	n, o	cytosolic epoxide hydrolase	cytosolic epoxide hydrolase	
3634	15696	NM_022939	e	syntaxin 12	syntaxin 12	
3637	18100	NM_022948	y	tricarboxylate carrier-like protein	tricarboxylate carrier-like protein	
3638	18107	NM_022949	b, l, General, ee	ribosomal protein L14	ribosomal protein L14	
3639	21491	NM_022951	tt	putative protein phosphatase 1 nuclear targeting subunit	putative protein phosphatase 1 nuclear targeting subunit	
3643	1053	NM_022962	pp	CL1BA protein	CL1BA protein	
3645	8266	NM_023103	a, j, r, cc	alpha(1)-inhibitor 3, variant I	alpha(1)-inhibitor 3, variant I	
3645	8267	NM_023103	r	alpha(1)-inhibitor 3, variant I	alpha(1)-inhibitor 3, variant I	
3645	8268	NM_023103	r, mm, xx	alpha(1)-inhibitor 3, variant I	alpha(1)-inhibitor 3, variant I	
3645	8269	NM_023103	r, jj, xx	alpha(1)-inhibitor 3, variant I	alpha(1)-inhibitor 3, variant I	
3646	23976	NM_023104	jj	acetoacetyl-CoA synthetase	acetoacetyl-CoA synthetase	
3659	17517	NM_024151	q, u, dd	ADP-ribosylation factor 4	ADP-ribosylation factor 4	
3663	220	NM_024161	c, m	cysteine string protein	cysteine string protein	
3671	771	NM_024368	a, qq	src related tyrosine kinase	src related tyrosine kinase	
3672	23489	NM_024375	xx	prepro bone inducing protein	prepro bone inducing protein	
3674	768	NM_024382	u, rr	leuserpin-2	leuserpin-2	
3676	2733	NM_024385	bb, jj	hematopoietically expressed homeobox	hematopoietically expressed homeobox	
3678	713	NM_024391	pp	17-beta hydroxysteroid dehydrogenase type 2	17-beta hydroxysteroid dehydrogenase type 2	
3679	25070	NM_024392	o, General	peroxisomal multifunctional enzyme type II	peroxisomal multifunctional enzyme type II	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3679	9929	NM_024392	p, w, ss	peroxisomal multifunctional enzyme type II	peroxisomal multifunctional enzyme type II
3679	9931	NM_024392	o, xx	peroxisomal multifunctional enzyme type II	peroxisomal multifunctional enzyme type II
3682	13633	NM_024403	w	activating transcription factor ATF-4	activating transcription factor ATF-4
3682	13634	NM_024403	r, w, z, General, ee, rr	activating transcription factor ATF-4	activating transcription factor ATF-4
3688	17916	NM_024488	g, q	CDK5 activator-binding protein C53	CDK5 activator-binding protein C53
3690	10305	NM_030835	ee, ff	ribosome associated membrane protein 4	ribosome associated membrane protein 4
3690	10306	NM_030835	b, q, x, General, dd	ribosome associated membrane protein 4	ribosome associated membrane protein 4
3690	10308	NM_030835	l, q	ribosome associated membrane protein 4	ribosome associated membrane protein 4
3692	18728	NM_030846	b, ww	growth factor receptor bound protein 2	growth factor receptor bound protein 2
3692	18023	NM_030846	k	growth factor receptor bound protein 2	growth factor receptor bound protein 2
3693	21509	NM_030847	f	epithelial membrane protein 3	epithelial membrane protein 3
3695	1035	NM_030851	y	Bradykinin receptor B1	Bradykinin receptor B1
3701	8815	NM_030991	ff		ESTs, Highly similar to LAS1_MOUSE LIM AND SH3 DOMAIN PROTEIN 1 (LASP-1) (MLN 50) [M.musculus]
3701	25130	NM_030991	k	Synaptosomal-associated protein, 25 kDa	Synaptosomal-associated protein, 25 kDa
3702	1991	NM_030995	xx	Microtubule-associated protein 1a	Microtubule-associated protein 1a
3704	135	NM_031003	l, General	4-aminobutyrate aminotransferase	4-aminobutyrate aminotransferase
3715	24658	NM_031018	ff	RATF2	RATF2
3717	1480	NM_031021	g	casein kinase II beta subunit	casein kinase II beta subunit
3718	1624	NM_031023	q, z, General	di-N-acetylchitobiase	di-N-acetylchitobiase
3723	15886	NM_031035	k, nn	GTP-binding protein (G-alpha-i2)	GTP-binding protein (G-alpha-i2)
3724	21095	NM_031039	e	glutamic-pyruvate transaminase (alanine aminotransferase)	glutamic-pyruvate transaminase (alanine aminotransferase)
3726	17726	NM_031043	jj	glycogenin	glycogenin
3726	17727	NM_031043	pp, uu	glycogenin	glycogenin
3726	25328	NM_031043	e, bb	glycogenin	glycogenin
3727	1731	NM_031047	tt	unction plakoglobin	unction plakoglobin
3731	9516	NM_031053	g	mismatch repair protein	mismatch repair protein
3737	24508	NM_031073	nn	neurotrophin-3 (HDNF/NT-3)	neurotrophin-3 (HDNF/NT-3)
3740	4683	NM_031083	d, f	phosphatidylinositol 4-kinase	phosphatidylinositol 4-kinase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3740	4684	NM_031083	k	phosphatidylinositol 4-kinase	phosphatidylinositol 4-kinase
3743	15201	NM_031093	gg, hh	#NAME?	#NAME?
3743	15203	NM_031093	l, m, s, w, General, tt	#NAME?	#NAME?
3745	1515	NM_031095	uu	renin-binding protein	renin-binding protein
3745	1516	NM_031095	x	renin-binding protein	renin-binding protein
3745	1517	NM_031095	ss	renin-binding protein	renin-binding protein
3746	12639	NM_031099	l, General, ee, ll	ribosomal protein L5	ribosomal protein L5
3753	16929	NM_031108	h, l, w, z, General, ee, ii, ll	mRNA for ribosomal protein S9	mRNA for ribosomal protein S9
3754	16847	NM_031109	h, xx	ribosomal protein S10	ribosomal protein S10
3759	1580	NM_031117	oo, ww	small nuclear ribonucleoparticle-associated protein (snRNP) mRNA, clone Sm51	small nuclear ribonucleoparticle-associated protein (snRNP) mRNA, clone Sm51
3761	14970	NM_031127	l, p, x, z, General, kk, nn	sulfite oxidase	sulfite oxidase
3763	13358	NM_031135	xx	TGFB inducible early growth response	TGFB inducible early growth response
3764	15052	NM_031136	s	thymosin beta-4	thymosin beta-4
3767	15185	NM_031140	s, ii	vimentin	vimentin
3770	1291	NM_031149	w	for proteasomal ATPase (SUG1)	for proteasomal ATPase (SUG1)
3771	1201	NM_031150	v	zona pellucida 2 glycoprotein	zona pellucida 2 glycoprotein
3776	1963	NM_031236	xx	Alpha1,2-fucosyltransferase a	Alpha1,2-fucosyltransferase a
3781	1422	NM_031324	ss	prolyl endopeptidase	prolyl endopeptidase
3782	18597	NM_031325	y, uu	UDP-glucose dehydrogenase	UDP-glucose dehydrogenase
3784	18373	NM_031331	ii, ww	proteasome (prosome, macropain) 26S subunit, non-ATPase,4	proteasome (prosome, macropain) 26S subunit, non-ATPase,4
3784	18375	NM_031331	h	proteasome (prosome, macropain) 26S subunit, non-ATPase,4	proteasome (prosome, macropain) 26S subunit, non-ATPase,4
3785	6671	NM_031333	t, General, mm	cadherin 2, type 1, N-cadherin (neuronal)	cadherin 2, type 1, N-cadherin (neuronal)
3785	6672	NM_031333	g	cadherin 2, type 1, N-cadherin (neuronal)	cadherin 2, type 1, N-cadherin (neuronal)
3785	6673	NM_031333	j	cadherin 2, type 1, N-cadherin (neuronal)	cadherin 2, type 1, N-cadherin (neuronal)
3788	11962	NM_031337	rr	sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)	sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3788	11963	NM_031337	xx	sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)	sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)
3790	4346	NM_031343	k	solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2	solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2
3791	5821	NM_031351	ll	atractin	atractin
3792	18538	NM_031353	t, y, mm	voltage-dependent anion channel 1	voltage-dependent anion channel 1
3792	18539	NM_031353	t, mm	voltage-dependent anion channel 1	voltage-dependent anion channel 1
3803	3292	NM_031531	dd	Serine protease inhibitor	Serine protease inhibitor
3804	14633	NM_031533	b, l, s, General, vv	Androsterone UDP-glucuronosyltransferase	Androsterone UDP-glucuronosyltransferase
3805	444	NM_031535	t, mm	B cell lymphoma 2 like	B cell lymphoma 2 like
3805	445	NM_031535	t, mm	B cell lymphoma 2 like	B cell lymphoma 2 like, ESTs, Moderately similar to ilvB (bacterial acetolactate synthase)-like; acetolactate synthase homolog [Homo sapiens] [H.sapiens]
3805	446	NM_031535	t, w, ii, ll, mm	B cell lymphoma 2 like	B cell lymphoma 2 like, ESTs, Moderately similar to ilvB (bacterial acetolactate synthase)-like; acetolactate synthase homolog [Homo sapiens] [H.sapiens]
3817	15024	NM_031572	General, ll, qq	Cytochrom P450 15-beta gene	Cytochrom P450 15-beta gene
3817	15025	NM_031572	bb, qq	Cytochrom P450 15-beta gene	Cytochrom P450 15-beta gene
3823	18005	NM_031588	j	neuregulin 1	neuregulin 1
3823	18011	NM_031588	dd	neuregulin 1	neuregulin 1
3846	20766	NM_031643	nn	mitogen-activated protein kinase kinase 1	mitogen-activated protein kinase kinase 1
3846	20767	NM_031643	s	mitogen-activated protein kinase kinase 1	mitogen-activated protein kinase kinase 1
3877	13543	NM_031749	q, oo	glucosidase 1	glucosidase 1
3877	13544	NM_031749	c	glucosidase 1	glucosidase 1
3877	13545	NM_031749	e	glucosidase 1	glucosidase 1
3877	25209	NM_031749	v, w, bb, rr	glucosidase 1	glucosidase 1
3878	16624	NM_031751	k	Shank1	Shank1
3879	20724	NM_031753	w	activated leukocyte cell adhesion molecule	activated leukocyte cell adhesion molecule
3882	16003	NM_031757	j	matrix metalloproteinase 24 (membrane-inserted)	matrix metalloproteinase 24 (membrane-inserted)
3884	4314	NM_031760	b, m, dd, uu, vv	ATP-binding cassette, sub-family B (MDR/TAP), member 11	ATP-binding cassette, sub-family B (MDR/TAP), member 11
3888	14184	NM_031776	i	guanine deaminase	guanine deaminase



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3888	14185	NM_031776	j, r, y	guanine deaminase	guanine deaminase
3889	1184	NM_031778	cc	Shab-related delayed-rectifier K <sup>+</sup> channel (Kv9.3)	Shab-related delayed-rectifier K <sup>+</sup> channel (Kv9.3)
3891	4325	NM_031784	u, v, tt	potassium channel regulatory protein KChAP	potassium channel regulatory protein KChAP
3897	1000	NM_031809	j	cyclic nucleotide-gated channel beta subunit 1	cyclic nucleotide-gated channel beta subunit 1
3898	16155	NM_031810	bb, ff	defensin beta 1	defensin beta 1
3899	16039	NM_031811	b, c, ee, xx	transaldolase 1	transaldolase 1
3907	10176	NM_031837	w	E-septin	E-septin
3911	1302	NM_031841	pp	stearoyl-Coenzyme A desaturase 1, stearoyl-Coenzyme A desaturase 2	stearoyl-Coenzyme A desaturase 1
3916	1475	NM_031971	ee	Heat shock protein 70-1	ESTs, Highly similar to S10A_RAT S-100 protein, alpha chain [R.norvegicus], Heat shock protein 70-1
3919	16257	NM_031975	l, s, General, ll, rr	parathymosin	parathymosin
3922	17805	NM_031980	b, General, gg, hh, vv	UDP-glucuronosyltransferase	UDP-glucuronosyltransferase
3922	17806	NM_031980	General, ii, ll	UDP-glucuronosyltransferase	UDP-glucuronosyltransferase
3923	15265	NM_031981	p, w, ff	p47 protein	p47 protein
3925	18898	NM_031985	pp	S6 kinase	S6 kinase
3929	964	NM_032062	v	huntingtin-associated protein interacting protein (duo)	huntingtin-associated protein interacting protein (duo)
3939	19148	NM_033096	oo	Protein phosphatase type 1B (formely 2C), Mg-dependent, beta isoform	Protein phosphatase type 1B (formely 2C), Mg-dependent, beta isoform
3941	4723	NM_033235	j, ll, qq	Malate dehydrogenase-like enzyme	Malate dehydrogenase-like enzyme
3941	4724	NM_033235	j	Malate dehydrogenase-like enzyme	Malate dehydrogenase-like enzyme
3942	2577	NM_033236	u, bb	Proteasome (prosome, macropain) 26S subunit, ATPase	Proteasome (prosome, macropain) 26S subunit, ATPase
3949	24484	NM_052806	k	Acetylcholine receptor beta 4	Acetylcholine receptor beta 4
3961	23211	NM_053334	f, nn	calcium modulating ligand	calcium modulating ligand
3963	15790	NM_053341	u	regulator of G-protein signaling 19	regulator of G-protein signaling 19
3966	2548	NM_053359	rr	ATX1 (antioxidant protein 1) homolog 1 (yeast)	ATX1 (antioxidant protein 1) homolog 1 (yeast)
3967	19512	NM_053365	xx	adipocyte lipid-binding protein	adipocyte lipid-binding protein
3969	12223	NM_053370	nn, qq	translocase of inner mitochondrial membrane 8 (yeast) homolog A	translocase of inner mitochondrial membrane 8 (yeast) homolog A

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3971	13492	NM_053400	ss	transducin-like enhancer of split 3, homolog of Drosophila	transducin-like enhancer of split 3, homolog of Drosophila
3972	16017	NM_053401	a	brain expressed X-linked 3	brain expressed X-linked 3
3972	16018	NM_053401	a, j	brain expressed X-linked 3	brain expressed X-linked 3
3973	6773	NM_053410	rr	acyl-CoA: dihydroxyacetonephosphate acyltransferase	acyl-CoA: dihydroxyacetonephosphate acyltransferase
3974	13903	NM_053412	General	interleukin enhancer binding factor 3	interleukin enhancer binding factor 3
3976	6186	NM_053430	ii	Flap structure-specific endonuclease 1	Flap structure-specific endonuclease 1
3977	2242	NM_053433	l	flavin-containing monooxygenase 3	flavin-containing monooxygenase 3
3981	23274	NM_053467	b, j, q, ee	integral membrane protein Tmp21-l (p23)	integral membrane protein Tmp21-l (p23)
3981	23276	NM_053467	n	integral membrane protein Tmp21-l (p23)	integral membrane protein Tmp21-l (p23)
3984	3860	NM_053477	g, o, ff, ii	malonyl-CoA decarboxylase	malonyl-CoA decarboxylase
3985	4290	NM_053487	o, y, xx	peroxisomal membrane protein Pmp26p (Peroxin-11)	peroxisomal membrane protein Pmp26p (Peroxin-11)
3986	23558	NM_053507	General	expressed in non-metastatic cells 3, protein (nucleoside diphosphate kinase)	expressed in non-metastatic cells 3, protein (nucleoside diphosphate kinase)
3987	16133	NM_053516	dd, jj	unknown Glu-Pro dipeptide repeat protein	unknown Glu-Pro dipeptide repeat protein
3988	19199	NM_053522	u	ras-like protein	ras-like protein
3988	19200	NM_053522	k, l, s, cc	ras-like protein	ras-like protein
3988	19205	NM_053522	cc, pp	ras-like protein	ras-like protein
3988	19206	NM_053522	a, cc	ras-like protein	ras-like protein
3989	18826	NM_053523	x, ff, nn, ss	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
3992	31	NM_053537	j	solute carrier family 22 (organic anion transporter), member 7	solute carrier family 22 (organic anion transporter), member 7
3992	32	NM_053537	h, k, l, uu	solute carrier family 22 (organic anion transporter), member 7	solute carrier family 22 (organic anion transporter), member 7
3993	1058	NM_053539	d, o, q, v, jj, pp	isopentenyl-diphosphate delta isomerase	isopentenyl-diphosphate delta isomerase
3994	12496	NM_053541	kk	low density lipoprotein receptor-related protein 3	low density lipoprotein receptor-related protein 3
3995	15829	NM_053551	y, nn, xx	pyruvate dehydrogenase kinase, isoenzyme 4	pyruvate dehydrogenase kinase, isoenzyme 4
3996	1198	NM_053554	t, mm	phosphatidylinositol binding clathrin assembly protein	phosphatidylinositol binding clathrin assembly protein
3997	11843	NM_053555	General	vesicle-associated membrane protein 5	vesicle-associated membrane protein 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3997	11844	NM_053555	v	vesicle-associated membrane protein 5	vesicle-associated membrane protein 5
3999	4327	NM_053563	w, tt	nuclear RNA helicase, DECD variant of DEAD box family	nuclear RNA helicase, DECD variant of DEAD box family
4000	21940	NM_053568	General	phosphate cytidylyltransferase 2, ethanolamine	phosphate cytidylyltransferase 2, ethanolamine
4000	21941	NM_053568	ff	phosphate cytidylyltransferase 2, ethanolamine	phosphate cytidylyltransferase 2, ethanolamine
4003	22617	NM_053578	d	vacuolar proton-ATPase subunit M9.2	vacuolar proton-ATPase subunit M9.2
4005	21423	NM_053586	r	cytochrome c oxidase subunit Vb	cytochrome c oxidase subunit Vb
4005	21424	NM_053586	e, General	cytochrome c oxidase subunit Vb	cytochrome c oxidase subunit Vb
4008	20842	NM_053590	mm	proteasome (prosome, macropain) subunit, beta type 1	proteasome (prosome, macropain) subunit, beta type 1
4009	20896	NM_053592	w, x, bb	Deoxyuridinetriphosphatase (dUTPase)	Deoxyuridinetriphosphatase (dUTPase)
4011	21709	NM_053596	kk, ss	Endothelin-converting enzyme 1	Endothelin-converting enzyme 1
4012	11830	NM_053598	General	diphosphoinositol polyphosphate phosphohydrolase type II	diphosphoinositol polyphosphate phosphohydrolase type II
4012	18795	NM_053598	bb	diphosphoinositol polyphosphate phosphohydrolase type II	diphosphoinositol polyphosphate phosphohydrolase type II
4012	23192	NM_053598	a, pp	diphosphoinositol polyphosphate phosphohydrolase type II	diphosphoinositol polyphosphate phosphohydrolase type II
4013	1390	NM_053599	c, p, v	ephrin A1	ephrin A1
4024	857	NM_053633	tt	early growth response 2	early growth response 2
4027	21637	NM_053653	kk	vascular endothelial growth factor C	vascular endothelial growth factor C
4028	7228	NM_053654	jj	platelet-activating factor acetylhydrolase, isoform 1b, alpha1 subunit	platelet-activating factor acetylhydrolase, isoform 1b, alpha1 subunit
4030	1318	NM_053656	g	purinergic receptor P2X, ligand-gated ion channel, 2	purinergic receptor P2X, ligand-gated ion channel, 2
4031	3454	NM_053662	ii, tt	cyclin L	cyclin L
4031	3455	NM_053662	w, tt	cyclin L	cyclin L
4033	24204	NM_053670	b, General, uu	calcitonin gene-related peptide-receptor component protein	calcitonin gene-related peptide-receptor component protein
4034	6784	NM_053671	v	TATA element modulatory factor 1	TATA element modulatory factor 1
4035	1957	NM_053674	ii	phytanoyl-CoA hydroxylase (Refsum disease)	phytanoyl-CoA hydroxylase (Refsum disease)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4036	16122	NM_053698	mm	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2
4036	16123	NM_053698	ee	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2
4037	13622	NM_053713	l	Kruppel-like factor 4 (gut)	Kruppel-like factor 4 (gut)
4037	22411	NM_053713	f, qq	Kruppel-like factor 4 (gut)	Kruppel-like factor 4 (gut)
4037	25379	NM_053713	qq	Kruppel-like factor 4 (gut)	Kruppel-like factor 4 (gut)
4040	4324	NM_053744	cc	delta-like homolog (Drosophila)	delta-like homolog (Drosophila)
4048	3828	NM_053785	b, ss	transmembrane 4 superfamily member 4	transmembrane 4 superfamily member 4
4051	6004	NM_053796	rr	junctional adhesion molecule 1	junctional adhesion molecule 1
4051	6005	NM_053796	a, q, s	junctional adhesion molecule 1	junctional adhesion molecule 1
4053	25594	NM_053799	m	aspartyl-tRNA synthetase	aspartyl-tRNA synthetase
4054	15615	NM_053800	u	thioredoxin	thioredoxin
4056	15800	NM_053810	w, cc	synaptosomal-associated protein, 29kD	synaptosomal-associated protein, 29kD
4062	20270	NM_053827	bb, mm	procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI)	procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI)
4063	17154	NM_053835	d	clathrin, light polypeptide (Lcb)	clathrin, light polypeptide (Lcb)
4064	16590	NM_053838	v	natriuretic peptide receptor 2	natriuretic peptide receptor 2
4065	17299	NM_053842	ww	mitogen activated protein kinase 1	mitogen activated protein kinase 1
4067	1508	NM_053845	e, uu, vv	ureidopropionase, beta	ureidopropionase, beta
4068	19018	NM_053849	y, xx	protein disulfide isomerase related protein (calcium-binding protein, intestinal-related)	protein disulfide isomerase related protein (calcium-binding protein, intestinal-related)
4069	24705	NM_053850	ww	biliverdin reductase A	biliverdin reductase A
4079	1337	NM_053895	p, tt	FGF receptor activating protein 1	FGF receptor activating protein 1
4083	15706	NM_053921	u	peroxisomal biogenesis factor 12	peroxisomal biogenesis factor 12
4086	1288	NM_053949	l, s	potassium voltage-gated channel, subfamily H (eag-related), member 2	potassium voltage-gated channel, subfamily H (eag-related), member 2
4087	1029	NM_053953	mm	interleukin 1 receptor, type II	interleukin 1 receptor, type II
4088	15822	NM_053957	General	amyloid beta (A4) precursor protein-binding, family B, member 3	amyloid beta (A4) precursor protein-binding, family B, member 3
4089	6538	NM_053959	l	myc box dependent interacting protein 1	myc box dependent interacting protein 1
4089	6539	NM_053959	ss, uu	myc box dependent interacting protein 1	myc box dependent interacting protein 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4090	16552	NM_053961	General	endoplasmic reticulum protein 29	endoplasmic reticulum protein 29
4090	16554	NM_053961	f	endoplasmic reticulum protein 29	endoplasmic reticulum protein 29
4092	15135	NM_053971	w	ribosomal protein L6	ribosomal protein L6
4092	15136	NM_053971	h	ribosomal protein L6	ribosomal protein L6
4093	1764	NM_053974	ff, pp	eukaryotic translation initiation factor 4E	eukaryotic translation initiation factor 4E
4096	1292	NM_053980	m	ADP-ribosylation factor related protein 1	ADP-ribosylation factor related protein 1
4098	15642	NM_053985	d, r, kk, rr	H3 histone, family 3B	H3 histone, family 3B
4098	15645	NM_053985	n, rr	H3 histone, family 3B	H3 histone, family 3B
4099	18025	NM_053989	vv	progesterone induced protein	progesterone induced protein
4100	16809	NM_053990	l, oo	protein tyrosine phosphatase, non-receptor type 2	protein tyrosine phosphatase, non-receptor type 2
4102	24430	NM_053996	w	proline transporter	proline transporter
4103	16965	NM_053999	v	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform
4104	21066	NM_054001	c, v, ii, rr	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2
4105	16566	NM_054004	u	TBP-interacting protein 120A	TBP-interacting protein 120A
4106	17431	NM_054006	rr	unr protein	unr protein
4114	15391	NM_057114	l	peroxiredoxin 1	peroxiredoxin 1
4115	20254	NM_057116	ii	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform
4118	15151	NM_057131	ss	phosphoribosyl pyrophosphate synthetase-associated protein 2	phosphoribosyl pyrophosphate synthetase-associated protein 2
4120	8592	NM_057137	q, xx	phenylalkylamine Ca <sup>2+</sup> antagonist (emopamil) binding protein	phenylalkylamine Ca <sup>2+</sup> antagonist (emopamil) binding protein
4124	358	NM_057146	u, vv	complement component 9	complement component 9
4125	706	NM_057147	ll	sec22 homolog	sec22 homolog
4131	23129	NM_078622	t, ff	phosphate cytidylyltransferase 1, choline, alpha isoform	phosphate cytidylyltransferase 1, choline, alpha isoform
4135	23550	NM_080698	f	fibromodulin	fibromodulin
4140	23033	NM_080888	tt	BCL2/adenovirus E1B 19 kDa-interacting protein 3-like	BCL2/adenovirus E1B 19 kDa-interacting protein 3-like
4141	23477	NM_080891	w	Fas death domain-associated protein	Fas death domain-associated protein
4142	6143	NM_080892	e	selenium binding protein 2	selenium binding protein 2
4146	4739	NM_130400	ff	Dihydrofolate reductase 1 (active)	Dihydrofolate reductase 1 (active)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4147	11421	NM_130405	w, tt	src associated in mitosis, 68 kDa	src associated in mitosis, 68 kDa
4150	3579	NM_130409	uu	complement component factor h	complement component factor h
4151	3458	NM_130412	ii	stromal cell derived factor 4	stromal cell derived factor 4
4152	6909	NM_130413	qq	src family associated phosphoprotein 2	src family associated phosphoprotein 2
4155	18293	NM_130433	o, ii, ss, xx	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)
4157	3880	NM_130749	bb	MAP/microtubule affinity-regulating kinase 3	MAP/microtubule affinity-regulating kinase 3
4158	18846	NM_130755	b, dd	citrate synthase	citrate synthase
4161	16767	NM_130826	o	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit
4161	16768	NM_130826	o, ss	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit
4169	25405	NM_133307	s, t, mm	protein kinase C, delta	protein kinase C, delta
4178	17634	NM_133418	q, z, General, uu	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10
4178	17635	NM_133418	l, x	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10
4178	17636	NM_133418	pp	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10
4179	19326	NM_133419	q, ss	dyskeratosis congenita 1, dyskerin	dyskeratosis congenita 1, dyskerin
4192	25821	NM_133570	cc	gastrin-releasing peptide	gastrin-releasing peptide
4198	1271	NM_133593	e	adaptor-related protein complex AP-3, mu 1 subunit	adaptor-related protein complex AP-3, mu 1 subunit
4199	1546	NM_133595	a, s, uu, vv	GTP cyclohydrolase I feedback regulatory protein	GTP cyclohydrolase I feedback regulatory protein
4200	17758	NM_133606	k, o, v, xx	enoyl-Coenzyme A hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	enoyl-Coenzyme A hydratase/3-hydroxyacyl Coenzyme A dehydrogenase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4203	699	NM_133617	b, g, General	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10
4204	1728	NM_133618	b, m, o, cc	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit
4207	1463	NM_134334	e, jj	cathepsin D	cathepsin D
4208	16456	NM_134346	w	RAP1B, member of RAS oncogene family	RAP1B, member of RAS oncogene family
4208	16457	NM_134346	u	RAP1B, member of RAS oncogene family	RAP1B, member of RAS oncogene family
4209	517	NM_134350	ee	Myxovirus (influenza) resistance, homolog of murine Mx (also interferon-inducible protein IFI78), myxovirus (influenza virus) resistance 3	myxovirus (influenza virus) resistance 3
4210	606	NM_134352	f, kk, tt	Plasminogen activator, urokinase receptor	Plasminogen activator, urokinase receptor
4211	14876	NM_134361	h	small inducible cytokine subfamily C, member 1 (lymphotactin)	small inducible cytokine subfamily C, member 1 (lymphotactin)
4214	1530	NM_134397	h, vv	LL5 protein	LL5 protein
4216	1557	NM_134403	qq, ss, vv	Cca3 protein	Cca3 protein
4218	2641	NM_134408	w, General	calcium-independent alpha-latrotoxin receptor homolog 2	calcium-independent alpha-latrotoxin receptor homolog 2
4223	2801	NM_134449	jj, oo	PKC-delta binding protein	PKC-delta binding protein
4223	2802	NM_134449	c	PKC-delta binding protein	PKC-delta binding protein
4227	5208	NM_138504	w, rr	pregnancy-induced growth inhibitor	pregnancy-induced growth inhibitor
4230	534	NM_138512	b, u	cytochrome P450 2c22	cytochrome P450 2c22
4231	15054	NM_138515	p	cytochrome P450 2D18	cytochrome P450 2D18
4232	24672	NM_138517	jj		Rat natural killer (NK) cell protease 1 (RNKP-1) mRNA, complete cds
4243	23166	NM_138839	m, rr	Vacuole Membrane Protein 1	Vacuole Membrane Protein 1
4244	1896	NM_138840	g	trans-golgi network protein 1	trans-golgi network protein 1
4244	1899	NM_138840	w	trans-golgi network protein 1	trans-golgi network protein 1
4249	17530	NM_138877	s	Diaphorase (NADH) (cytochrome b-5 reductase)	Diaphorase (NADH) (cytochrome b-5 reductase)
4249	17532	NM_138877	l, z, General, nn	Diaphorase (NADH) (cytochrome b-5 reductase)	Diaphorase (NADH) (cytochrome b-5 reductase)
4249	17533	NM_138877	General, gg, hh, ll	Diaphorase (NADH) (cytochrome b-5 reductase)	Diaphorase (NADH) (cytochrome b-5 reductase)
4249	25039	NM_138877	General, ss	Diaphorase (NADH) (cytochrome b-5 reductase)	Diaphorase (NADH) (cytochrome b-5 reductase)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4251	4593	NM_138881	a	Best5 protein	Best5 protein
4251	4594	NM_138881	a, qq	Best5 protein	Best5 protein
4251	4595	NM_138881	k	Best5 protein	Best5 protein
4252	7395	NM_138883	p, ff	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein)	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein)
4253	14964	NM_138884	s, uu	aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)	aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)
4253	14965	NM_138884	m	aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)	aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)
4257	18867	NM_138900	b, h, General, dd, rr	complement component 1, s subcomponent	complement component 1, s subcomponent
4262	17185	NM_138919	dd	unc-50 related protein (UNCL)	unc-50 related protein (UNCL)
4263	287	NM_139042	xx	guanylyl cyclase with kinase-like domain, soluble	guanylyl cyclase with kinase-like domain, soluble
4265	1674	NM_139086	e	syncollin	syncollin
4267	809	NM_139089	ee	small inducible cytokine B subfamily (Cys-X-Cys), member 10	small inducible cytokine B subfamily (Cys-X-Cys), member 10
4268	737	NM_139093	e, tt	CTD-binding SR-like protein rA9	CTD-binding SR-like protein rA9
4274	17684	NM_139102	d, h, uu	dimethylglycine dehydrogenase precursor	dimethylglycine dehydrogenase precursor
4275	18108	NM_139105	i, w, General, uu, vv	ribonuclease/angiogenin inhibitor	ribonuclease/angiogenin inhibitor
4276	18450	NM_139106	r, ss	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, delta subunit	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, delta subunit
4279	1301	NM_139192	n	stearoyl-Coenzyme A desaturase 1	stearoyl-Coenzyme A desaturase 1
4286	8717	NM_139333	gg, hh	neuronal differentiation-related gene	neuronal differentiation-related gene
4289	23681	NM_144746	General, rr		Rattus norvegicus protein phosphatase 2A B regulatory subunit delta isoform mRNA, complete cds
4304	1798	NM_145779	a, d, m, uu, vv		R.norvegicus alpha-1-macroglobulin mRNA, complete cds
4308	20740	NM_145878	bb, pp		Rattus norvegicus Sprague-Dawley lipid-binding protein mRNA, complete cds
4313	16963	NM_147214	r, ee	Caldesmon 1, protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform	Caldesmon 1, protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4315	10544	NM_152935	m		Rattus norvegicus outer mitochondrial membrane receptor rTOM20 mRNA, complete cds
4315	10545	NM_152935	cc		Rattus norvegicus outer mitochondrial membrane receptor rTOM20 mRNA, complete cds
4316	12700	NM_152936	w		Rat pancreatic secretory trypsin inhibitor type II (PSTI-II) mRNA, complete cds
4320	1130	NM_153313	a, cc		Rat cytochrome P450CMF1b mRNA, complete cds
4321	14632	NM_153314	f, uu	Androsterone UDP-glucuronosyltransferase	Androsterone UDP-glucuronosyltransferase
4321	14346	NM_153314	b, l, j, General, qq, vv, ww		Rat UDP-glucuronosyltransferase mRNA, complete cds
4321	14347	NM_153314	b, General, vv		Rat UDP-glucuronosyltransferase mRNA, complete cds
4322	7789	NM_153630	d		Rattus norvegicus putative four repeat ion channel mRNA, complete cds
4343	21981	S75019	ss, vv		ESTs, Highly similar to B54676 antiqutin - rat (fragment) [R.norvegicus]
4347	24469	S77858	m, rr		ESTs, Highly similar to MLES_RAT Myosin light chain alkali, smooth-muscle isoform (MLC3SM) [R.norvegicus]
4365	17999	U19485	a, g, x, bb, rr	spp-24 precursor	spp-24 precursor
4365	18000	U19485	g, x, cc, dd	spp-24 precursor	spp-24 precursor
4366	228	U20194	uu		Rattus norvegicus complement C8 beta (C8b) mRNA, partial cds
4366	229	U20194	General		Rattus norvegicus complement C8 beta (C8b) mRNA, partial cds
4368	1537	U27518	ss		Rattus norvegicus UDP-glucuronosyltransferase mRNA, complete cds
4371	21488	U32575	e, xx		ESTs, Weakly similar to I49523 tumor necrosis factor alpha-induced protein 2 - mouse [M.musculus]
4391	3387	U75411	cc		Rat Ig active lambda2-like chain mRNA, 3' end
4413	672	X13722	ff, jj		Rat mRNA for LDL-receptor
4416	15653	X14210	ee, ll	NADH ubiquinone oxidoreductase subunit B13	NADH ubiquinone oxidoreductase subunit B13
4417	18541	X14671	h, gg, hh		ESTs, Highly similar to RL26_RAT 60S RIBOSOMAL PROTEIN L26 [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4419	19244	X15013	h, gg, hh		ESTs, Highly similar to RL7A_HUMAN 60S ribosomal protein L7a (Surfeit locus protein 3) (PLA-X polypeptide) [R.norvegicus]
4430	18606	X53504	h, j, General, gg, hh, ll		ESTs, Highly similar to RL12_RAT 60S RIBOSOMAL PROTEIN L12 [R.norvegicus]
4433	24577	X55153	h, v, General		ESTs, Highly similar to R6RTP2 acidic ribosomal protein P2, cytosolic [validated] - rat [R.norvegicus]
4438	17175	X58389	rr		R.norvegicus ASI mRNA for mammalian equivalent of bacterial large ribosomal subunit protein L22
4444	21657	X61381	b, x, General, bb, dd, ll, nn, qq		Rattus norvegicus interferon-inducible protein variant 10 mRNA, complete cds
4456	22424	X67788	z, gg, hh	villin 2	villin 2
4458	602	X68101	bb		R.norvegicus trg mRNA
4459	588	X69834	a, ii, rr		R.norvegicus mRNA for serine protease inhibitor 2.4
4460	16300	X70706	j	plastin 3 (T-isoform)	plastin 3 (T-isoform)
4468	463	X83579	f, q, u, ww	cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase)	cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase)
4478	17146	Y07534	b, qq	Serine protease inhibitor	Serine protease inhibitor
4480	20695	Y09000	gg, hh	Dendrin	Dendrin
4481	407	Z11995	gg, hh	low density lipoprotein receptor-related protein associated protein 1	low density lipoprotein receptor-related protein associated protein 1
872	16499	AA925300	d	HHs:mitogen-activated protein kinase kinase kinase 3	ESTs, Weakly similar to mitogen activated protein kinase kinase kinase 1 [Rattus norvegicus] [R.norvegicus]
1908	2069	AI103616	bb	HHs:ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	ESTs, Weakly similar to ras-like protein [Rattus norvegicus] [R.norvegicus]
2650	5778	AI233246	ii	HHs:polymerase (RNA) II (DNA directed) polypeptide B (140kD)	ESTs, Weakly similar to RNA polymerase I (127 kDa subunit) [Rattus norvegicus] [R.norvegicus]
2654	5779	AI233350	l	HHs:polymerase (RNA) II (DNA directed) polypeptide B (140kD)	ESTs, Weakly similar to RNA polymerase I (127 kDa subunit) [Rattus norvegicus] [R.norvegicus]
4387	11	U70210	g	amyloid beta (A4) precursor protein-binding, family B, member 2	amyloid beta (A4) precursor protein-binding, family B, member 2
123	18115	AA800339	d, General, ee, kk	Transferrin	Transferrin

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
184	2143	AA817892	e, gg, hh, jj	guanine nucleotide binding protein beta 2 subunit	guanine nucleotide binding protein beta 2 subunit
420	2263	AA859757	e	collagen, type V, alpha 1	collagen, type V, alpha 1
435	23324	AA859980	a, c, d, jj	T-complex 1	T-complex 1
435	18578	AA859980	a, c, q, jj, ss	T-complex 1	T-complex 1
445	17111	AA860062	ee	Albumin	Albumin
497	15342	AA875172	k	SH3-domain kinase binding protein 1	SH3-domain kinase binding protein 1
499	18897	AA875207	g	Hemoglobin, beta	Hemoglobin, beta
592	17345	AA892014	c	HLA-B associated transcript 1A	HLA-B associated transcript 1A
592	17346	AA892014	k	HLA-B associated transcript 1A	HLA-B associated transcript 1A
656	23180	AA892649	j, l, General, cc	gamma-aminobutyric acid receptor associated protein	gamma-aminobutyric acid receptor associated protein
663	12118	AA892775	l, General, gg, hh, kk	Lysozyme	Lysozyme
704	20986	AA893242	o	fatty acid Coenzyme A ligase, long chain 2	fatty acid Coenzyme A ligase, long chain 2
756	6377	AA894273	t, qq	dimethylarginine dimethylaminohydrolase 1	dimethylarginine dimethylaminohydrolase 1
989	19421	AA945152	n, ee	dimethylarginine dimethylaminohydrolase 1	dimethylarginine dimethylaminohydrolase 1
1094	24230	AA957218	ii	Cyclin D1	Cyclin D1
1246	14583	AB008807	dd, uu	glutathione S-transferase omega 1	ESTs, Highly similar to GTO1_RAT Glutathione transferase omega 1 (GSTO 1-1) (Glutathione-dependent dehydroascorbate reductase) [R.norvegicus]
1249	17963	AB012231	h	nuclear factor I/B	nuclear factor I/B
1250	24414	AB012234	ii	Nuclear factor I/X (CCAAT-binding transcription factor)	Nuclear factor I/X (CCAAT-binding transcription factor)
1251	4307	AB012600	s	aryl hydrocarbon receptor nuclear translocator-like	aryl hydrocarbon receptor nuclear translocator-like
1257	20438	AF009656	e, u	hypoxanthine guanine phosphoribosyl transferase	hypoxanthine guanine phosphoribosyl transferase
1259	4308	AF015953	ww	aryl hydrocarbon receptor nuclear translocator-like	aryl hydrocarbon receptor nuclear translocator-like
1278	16006	AF062594	m, ii	nucleosome assembly protein 1-like 1	nucleosome assembly protein 1-like 1
1314	7785	AI008758	vv	Dipeptidyl peptidase 4	Dipeptidyl peptidase 4
1410	16010	AI011922	e	nucleosome assembly protein 1-like 1	nucleosome assembly protein 1-like 1
1465	17065	AI013531	qq	carbonyl reductase 1	carbonyl reductase 1
1596	20983	AI044900	o, v	fatty acid Coenzyme A ligase, long chain 2	fatty acid Coenzyme A ligase, long chain 2
1938	18277	AI104399	t	Triosephosphate isomerase 1	Triosephosphate isomerase 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1961	17171	AI105137	oo, rr	Somatostatin	ESTs, Highly similar to GTK1_RAT Glutathione S-transferase, mitochondrial (GST 13-13) (Glutathione S-transferase subunit 13) (GST class-kappa) [R.norvegicus], Somatostatin
2031	16510	AI137583	b, w, ii, rr, tt	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
2235	12614	AI175294	General	ribosomal protein L21	ribosomal protein L21
2424	19427	AI179510	pp	dimethylarginine dimethylaminohydrolase 1	dimethylarginine dimethylaminohydrolase 1
2465	22845	AI227887	t	cell division cycle 42	cell division cycle 42
2487	18612	AI228624	a, c, e, kk	ribosomal protein L29	ribosomal protein L29
2532	23041	AI230130	e	ectonucleoside triphosphate diphosphohydrolase 2	ectonucleoside triphosphate diphosphohydrolase 2
2767	14666	AI236912	z	Ngfi-A binding protein 1	Ngfi-A binding protein 1
2823	19112	AI639157	w	ribosomal protein L13	ribosomal protein L13
2896	9135	D45247	b, mm	proteasome beta type subunit 5	ESTs, Highly similar to PSB5_RAT Proteasome subunit beta type 5 precursor (Proteasome epsilon chain) (Macropain epsilon chain) (Multicatalytic endopeptidase complex epsilon chain) (Proteasome subunit X) (Proteasome chain 6) [R.norvegicus]
2901	20984	D90109	o, gg, hh, oo, uu	fatty acid Coenzyme A ligase, long chain 2	fatty acid Coenzyme A ligase, long chain 2
2939	26368	H34047	jj	T-complex 1	T-complex 1
2960	17508	L08814	e, gg, hh, oo	Structure specific recognition protein 1	Structure specific recognition protein 1
2978	21146	L35558	gg, hh	Solute carrier family 1 A1 (brain glutamate transporter)	Solute carrier family 1 A1 (brain glutamate transporter)
2989	1466	M14050	p, q, General, dd, ff	Heat shock 70kD protein 5	ESTs, Heat shock 70kD protein 5
3017	21399	M36410	General	sepiapterin reductase	sepiapterin reductase
3017	21400	M36410	n, x, General, dd, ee	sepiapterin reductase	sepiapterin reductase
3027	13547	M63983	e	hypoxanthine guanine phosphoribosyl transferase	ESTs, Moderately similar to ICA2_MOUSE Intercellular adhesion molecule-2 precursor (ICAM-2) (CD102) (Lymphocyte function-associated AG-1 counter-receptor) [M.musculus], hypoxanthine guanine phosphoribosyl transferase
3028	10743	M64780	l, p, z, General	Agrin	Agrin
3028	10744	M64780	l, p, z, General, ii, nn, rr	Agrin	Agrin

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3031	21670	M80601	f, l, z, General	programmed cell death 2	programmed cell death 2
3045	22513	NM_012488	nn	Alpha-2-macroglobulin	Alpha-2-macroglobulin
3052	20153	NM_012503	b, g, v	Asialoglycoprotein receptor 1 (hepatic lectin)	Asialoglycoprotein receptor 1 (hepatic lectin)
3057	563	NM_012516	l, vv	Complement component 4 binding protein, alpha	Complement component 4 binding protein, alpha
3062	16520	NM_012532	b, u	Ceruloplasmin (ferroxidase)	Ceruloplasmin (ferroxidase)
3068	21834	NM_012555	x	Ets avian erythroblastosis virus E2 oncogene homolog 1 (tumor progression locus 1)	Ets avian erythroblastosis virus E2 oncogene homolog 1 (tumor progression locus 1)
3068	21835	NM_012555	y	Ets avian erythroblastosis virus E2 oncogene homolog 1 (tumor progression locus 1)	Ets avian erythroblastosis virus E2 oncogene homolog 1 (tumor progression locus 1)
3082	20126	NM_012591	u, nn	Interferon regulatory factor 1, sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)	Interferon regulatory factor 1, sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)
3097	1840	NM_012637	g	protein tyrosine phosphatase, non-receptor type 1	protein tyrosine phosphatase, non-receptor type 1
3097	1841	NM_012637	ww	protein tyrosine phosphatase, non-receptor type 1	protein tyrosine phosphatase, non-receptor type 1
3097	1844	NM_012637	ww	protein tyrosine phosphatase, non-receptor type 1	ESTs, protein tyrosine phosphatase, non-receptor type 1
3105	21794	NM_012670	g, m, s	T-complex 1	T-complex 1
3125	16613	NM_012732	c	Cholesterol esterase (pancreatic)	Cholesterol esterase (pancreatic)
3125	10260	NM_012732	y	Cholesterol esterase (pancreatic)	Cholesterol esterase (pancreatic)
3126	23806	NM_012733	b, qq	Retinol-binding protein 1	Retinol-binding protein 1
3130	426	NM_012738	l, General, cc, nn, vv	Apolipoprotein A-I	Apolipoprotein A-I
3130	427	NM_012738	f, l, x, General, nn, vv	Apolipoprotein A-I	Apolipoprotein A-I
3140	7783	NM_012789	qq	Dipeptidyl peptidase 4	Dipeptidyl peptidase 4
3140	7784	NM_012789	General, kk	Dipeptidyl peptidase 4	Dipeptidyl peptidase 4
3141	24113	NM_012791	r	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a
3145	556	NM_012803	b, u, x, dd	Protein C	Protein C
3146	21729	NM_012804	o, ff	ATP-binding cassette, sub-family D (ALD), member 3	ATP-binding cassette, sub-family D (ALD), member 3
3146	21730	NM_012804	o, v	ATP-binding cassette, sub-family D (ALD), member 3	ATP-binding cassette, sub-family D (ALD), member 3
3161	18767	NM_012857	qq	Lysosomal associated membrane protein 1 (120 kDa)	Lysosomal associated membrane protein 1 (120 kDa)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3161	18770	NM_012857	m, ff, ii, rr	Lysosomal associated membrane protein 1 (120 kDa)	Lysosomal associated membrane protein 1 (120 kDa)
3168	16721	NM_012891	o, General, cc, kk, uu	Acyl-CoA dehydrogenase, Very long chain	Acyl-CoA dehydrogenase, Very long chain
3174	23	NM_012907	ii	Apolipoprotein B editing protein	Apolipoprotein B editing protein
3175	24431	NM_012912	c, n, General, kk, tt	Activating transcription factor 3	Activating transcription factor 3
3180	20755	NM_012923	m, u	Cyclin G1	Cyclin G1
3184	13723	NM_012935	u	Crystallin, alpha polypeptide 2	Crystallin, alpha polypeptide 2, ESTs, ESTs, Weakly similar to T46637 transcription factor 1, neural - rat [R.norvegicus]
3185	9109	NM_012939	l, General	Cathepsin H	Cathepsin H
3198	1525	NM_012980	v	Matrix metalloproteinase 11 (stromelysin 3)	Matrix metalloproteinase 11 (stromelysin 3)
3215	18078	NM_013030	r	Solute carrier family 17 (sodium/hydrogen exchanger), member 2	Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, Solute carrier family 17 (sodium/hydrogen exchanger), member 2
3219	730	NM_013040	cc	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9
3226	16511	NM_013060	rr	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
3265	24490	NM_013178	s, cc	Sodium channel, voltage-gated, type IV, alpha polypeptide	Sodium channel, voltage-gated, type IV, alpha polypeptide
3266	10499	NM_013184	r, ii	Neurotrophin 5 (neurotrophin 4/5), ribosomal protein S23	ribosomal protein S23
3272	1693	NM_013199	e	Dynamin 2	Dynamin 2
3284	24649	NM_016988	b, e, l, w, General	Acid phosphatase 2, lysozymal	Acid phosphatase 2, lysozymal
3287	1958	NM_016994	b, General, uu, vv	Complement component 3	Complement component 3
3287	1959	NM_016994	f, u, uu	Complement component 3	Complement component 3
3289	1698	NM_017000	e	Diaphorase (NADH/NADPH)	Diaphorase (NADH/NADPH)
3292	18989	NM_017013	qq, vv	Glutathione-S-transferase, alpha type (Yc?)	Glutathione-S-transferase, alpha type (Yc?)
3300	24861	NM_017033	p, General	Phosphoglucosyltransferase 1	Phosphoglucosyltransferase 1
3300	24862	NM_017033	x, General	Phosphoglucosyltransferase 1	Phosphoglucosyltransferase 1
3308	1942	NM_017061	a	Lysyl oxidase	Lysyl oxidase
3308	1946	NM_017061	ss	Lysyl oxidase	Lysyl oxidase
3314	1262	NM_017077	c, v, rr, xx	Hepatocyte nuclear factor 3 gamma	Hepatocyte nuclear factor 3 gamma

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3316	23660	NM_017080	a, l, vv	Hydroxysteroid dehydrogenase, 11 beta type 1	Hydroxysteroid dehydrogenase, 11 beta type 1
3321	4392	NM_017101	mm	Peptidylprolyl isomerase A (cyclophilin A)	Peptidylprolyl isomerase A (cyclophilin A)
3321	4393	NM_017101	bb, mm	Peptidylprolyl isomerase A (cyclophilin A)	Peptidylprolyl isomerase A (cyclophilin A)
3323	1548	NM_017112	b, General	hepsin	hepsin
3326	1435	NM_017125	l, cc, rr	Cd63 antigen	Cd63 antigen
3329	169	NM_017131	f	calsequestrin 2	calsequestrin 2
3335	10503	NM_017143	a, x, dd	coagulation factor X	coagulation factor X
3335	10504	NM_017143	d, dd	coagulation factor X	coagulation factor X
3338	5351	NM_017150	j	ribosomal protein L29	ribosomal protein L29
3347	17686	NM_017165	o	glutathione peroxidase 4	glutathione peroxidase 4
3349	8182	NM_017170	a, bb	serum amyloid P-component	serum amyloid P-component
3350	20919	NM_017172	v, nn	zinc finger protein 36, C3H type-like 1	zinc finger protein 36, C3H type-like 1
3351	114	NM_017175	oo	protein kinase C-like 1	protein kinase C-like 1
3352	3512	NM_017177	d, o, q, v, dd	choline kinase-like	choline kinase-like
3352	3513	NM_017177	d, n, dd	choline kinase-like	choline kinase-like
3353	3174	NM_017178	qq	bone morphogenetic protein 2	bone morphogenetic protein 2
3354	23961	NM_017181	b, uu, vv	fumarylacetoacetate hydrolase	fumarylacetoacetate hydrolase
3355	15434	NM_017187	y	high mobility group box 2	high mobility group box 2
3355	15437	NM_017187	r, y, ww	high mobility group box 2	high mobility group box 2
3358	9124	NM_017199	j, ii	signal sequence receptor, delta	signal sequence receptor, delta
3358	9125	NM_017199	u, dd, ii, ll	signal sequence receptor, delta	signal sequence receptor, delta
3358	9126	NM_017199	g	signal sequence receptor, delta	signal sequence receptor, delta
3362	5005	NM_017209	n	nuclear receptor binding factor 1	nuclear receptor binding factor 1
3372	21743	NM_017235	jj	hydroxysteroid 17-beta dehydrogenase 7	hydroxysteroid 17-beta dehydrogenase 7
3372	21744	NM_017235	bb, ii, jj	hydroxysteroid 17-beta dehydrogenase 7	ESTs, Highly similar to DHB7_RAT ESTRADIOL 17 BETA-DEHYDROGENASE 7 (17-BETA-HSD 7) (17-BETA-HYDROXYSTEROID DEHYDROGENASE 7) (PRL RECEPTOR ASSOCIATED PROTEIN) (PRAP) [R.norvegicus]
3374	10427	NM_017237	bb	ubiquitin carboxy-terminal hydrolase L1	ubiquitin carboxy-terminal hydrolase L1
3374	10429	NM_017237	cc	ubiquitin carboxy-terminal hydrolase L1	ubiquitin carboxy-terminal hydrolase L1
3375	1498	NM_017239	v	myosin heavy chain, polypeptide 6, cardiac muscle, alpha	myosin heavy chain, polypeptide 6, cardiac muscle, alpha
3377	17561	NM_017245	mm	eukaryotic translation elongation factor 2	eukaryotic translation elongation factor 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3377	17562	NM_017245	h, t, mt	eukaryotic translation elongation factor 2, mitogen activated protein kinase kinase 2	eukaryotic translation elongation factor 2, mitogen activated protein kinase kinase 2
3377	17563	NM_017245	gg, hh	eukaryotic translation elongation factor 2	eukaryotic translation elongation factor 2
3379	17502	NM_017248	rr	heterogeneous nuclear ribonucleoprotein A1	heterogeneous nuclear ribonucleoprotein A1
3379	15012	NM_017248	kk	heterogeneous nuclear ribonucleoprotein A1	ESTs, Highly similar to DDRT helix-destabilizing protein - rat [R.norvegicus], heterogeneous nuclear ribonucleoprotein A1
3383	19	NM_017258	s, ss, tt	B-cell translocation gene 1, anti-proliferative	B-cell translocation gene 1, anti-proliferative
3395	15535	NM_017283	ll	proteasome (prosome, macropain) subunit, alpha type 6	proteasome (prosome, macropain) subunit, alpha type 6
3396	12523	NM_017285	tt	proteasome (prosome, macropain) subunit, beta type, 3	proteasome (prosome, macropain) subunit, beta type, 3
3396	12524	NM_017285	kk	proteasome (prosome, macropain) subunit, beta type, 3	proteasome (prosome, macropain) subunit, beta type, 3
3397	20579	NM_017288	u	sodium channel, voltage-gated, type I, beta polypeptide	sodium channel, voltage-gated, type I, beta polypeptide
3404	23130	NM_017307	j, z, General	solute carrier family 25 (mitochondrial carrier; citrate transporter) member 1	solute carrier family 25 (mitochondrial carrier; citrate transporter) member 1
3412	1630	NM_017325	qq, vv	runt related transcription factor 1	runt related transcription factor 1
3428	24785	NM_019133	n	Synapsin I	Synapsin I
3439	1608	NM_019166	e	synaptogyrin 1	ESTs, Moderately similar to SNG1_RAT SYNAPTOGYRIN 1 (P29) [R.norvegicus], synaptogyrin 1
3441	17064	NM_019170	uu	carbonyl reductase 1	carbonyl reductase 1
3442	269	NM_019180	d	mast cell protease 6	mast cell protease 6
3451	2632	NM_019213	s	jumping translocation breakpoint	jumping translocation breakpoint
3453	15348	NM_019222	k, m	coronin, actin binding protein 1B	coronin, actin binding protein 1B
3456	20433	NM_019232	tt, xx	serum/glucocorticoid regulated kinase	serum/glucocorticoid regulated kinase
3457	15504	NM_019237	d	procollagen C-proteinase enhancer protein	procollagen C-proteinase enhancer protein
3460	17908	NM_019242	f, General, ee, pp	interferon-related developmental regulator 1	interferon-related developmental regulator 1



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3464	1973	NM_019249	h, q, r, w, z, General, ee, nn	protein tyrosine phosphatase, receptor-type, F	protein tyrosine phosphatase, receptor-type, F
3467	13450	NM_019255	k	calcium channel, voltage-dependent, gamma subunit 1	calcium channel, voltage-dependent, gamma subunit 1
3493	1818	NM_019369	a, uu	inter-alpha-inhibitor H4 heavy chain	inter-alpha-inhibitor H4 heavy chain
3495	1323	NM_019371	t, mm	EGL nine homolog 3 (C. elegans)	EGL nine homolog 3 (C. elegans)
3495	1324	NM_019371	t, mm	EGL nine homolog 3 (C. elegans)	EGL nine homolog 3 (C. elegans)
3507	574	NM_019905	m	calpactin I heavy chain, hydroxyacid oxidase 3 (medium-chain), unknown Glu-Pro dipeptide repeat protein	calpactin I heavy chain, hydroxyacid oxidase 3 (medium-chain), unknown Glu-Pro dipeptide repeat protein
3512	12087	NM_020082	d	ribonuclease 4	ribonuclease 4
3519	19059	NM_021587	a	transforming growth factor-beta (TGF-beta) masking protein large subunit	transforming growth factor-beta (TGF-beta) masking protein large subunit
3522	19679	NM_021653	a, d, ii	Thyroxine deiodinase, type I	Thyroxine deiodinase, type I
3544	23782	NM_022183	xx	topoisomerase (DNA) II alpha	topoisomerase (DNA) II alpha
3556	19422	NM_022297	j, z	dimethylarginine dimethylaminohydrolase 1	dimethylarginine dimethylaminohydrolase 1
3556	19423	NM_022297	l	dimethylarginine dimethylaminohydrolase 1	dimethylarginine dimethylaminohydrolase 1
3573	8214	NM_022500	f, n	ferritin light chain 1	ferritin light chain 1
3575	5319	NM_022502	r, u, z	palmitoyl-protein thioesterase	palmitoyl-protein thioesterase
3577	1468	NM_022507	dd	protein kinase C, zeta	protein kinase C, zeta
3589	4601	NM_022524	g	sushi-repeat-containing protein, X chromosome	sushi-repeat-containing protein, X chromosome
3599	20925	NM_022594	o	Peroxisomal enoyl hydratase-like protein	Peroxisomal enoyl hydratase-like protein
3612	17661	NM_022674	c, d, oo, xx	H2A histone family, member Z	H2A histone family, member Z
3651	1785	NM_024130	x, oo	dynactin 1	dynactin 1
3689	1853	NM_030826	g	Glutathione peroxidase 1	ESTs, Glutathione peroxidase 1
3700	20410	NM_030990	g, bb, cc	Proteolipid protein (Pelizaeus-Merzbacher disease, spastic paraplegia 2, uncomplicated)	Proteolipid protein (Pelizaeus-Merzbacher disease, spastic paraplegia 2, uncomplicated)
3705	21165	NM_031005	mm	actinin, alpha 1	actinin, alpha 1
3705	21166	NM_031005	t, mm	actinin, alpha 1	actinin, alpha 1
3707	997	NM_031007	u	adenylyl cyclase 2	adenylyl cyclase 2
3722	690	NM_031034	t, v, General, mm	guanine nucleotide binding protein (G protein) alpha 12	guanine nucleotide binding protein (G protein) alpha 12
3722	691	NM_031034	t, mm	guanine nucleotide binding protein (G protein) alpha 12	guanine nucleotide binding protein (G protein) alpha 12
3738	1855	NM_031074	d	nucleoporin 98	nucleoporin 98

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3748	23854	NM_031101	General	ribosomal protein L13	ribosomal protein L13
3750	16938	NM_031103	ee	ribosomal protein L19	ribosomal protein L19
3758	19040	NM_031114	qq, vv	S-100 related protein, clone 42C	S-100 related protein, clone 42C
3762	15539	NM_031132	v	proteasome (prosome, macropain) subunit, alpha type 6, transforming growth factor-b type II receptor	proteasome (prosome, macropain) subunit, alpha type 6, transforming growth factor-b type II receptor
3786	3519	NM_031334	h, o, dd	Cadherin 1	Cadherin 1
3796	18990	NM_031509	e	Glutathione-S-transferase, alpha type (Yc?)	Glutathione-S-transferase, alpha type (Yc?)
3797	17427	NM_031510	p	Isocitrate dehydrogenase 1, soluble	Isocitrate dehydrogenase 1, soluble
3800	12580	NM_031514	m, v	Janus kinase 2 (a protein tyrosine kinase)	Janus kinase 2 (a protein tyrosine kinase)
3802	20448	NM_031530	vv	Small inducible gene JE	Small inducible gene JE
3802	20449	NM_031530	vv	Small inducible gene JE	Small inducible gene JE
3812	692	NM_031557	g	Prostaglandin I2 (prostacyclin) synthase	Prostaglandin I2 (prostacyclin) synthase
3816	9620	NM_031570	h, General, II	ribosomal protein S7	ribosomal protein S7
3816	9621	NM_031570	General, rr	ribosomal protein S7	ribosomal protein S7
3828	14295	NM_031599	f, I, pp	eukaryotic translation initiation factor 2 alpha kinase 3	eukaryotic translation initiation factor 2 alpha kinase 3
3837	21585	NM_031620	j	3-phosphoglycerate dehydrogenase	3-phosphoglycerate dehydrogenase
3837	21586	NM_031620	j, u, dd, oo	3-phosphoglycerate dehydrogenase	3-phosphoglycerate dehydrogenase
3837	21587	NM_031620	k	3-phosphoglycerate dehydrogenase	3-phosphoglycerate dehydrogenase
3838	1683	NM_031621	e, ww	linker of T-cell receptor pathways	linker of T-cell receptor pathways
3839	14956	NM_031622	l	mitogen-activated protein kinase 6	mitogen-activated protein kinase 6
3841	1639	NM_031627	c, x, General, ss	nuclear receptor subfamily 1, group H, member 3	nuclear receptor subfamily 1, group H, member 3
3845	1727	NM_031642	r, tt	core promoter element binding protein	core promoter element binding protein
3854	18403	NM_031677	r	four and a half LIM domains 2	four and a half LIM domains 2
3856	2327	NM_031683	II	SMC (segregation of mitotic chromosomes 1)-like 1 (yeast)	SMC (segregation of mitotic chromosomes 1)-like 1 (yeast)
3857	20743	NM_031684	dd	solute carrier family 29 (nucleoside transporters), member 1	solute carrier family 29 (nucleoside transporters), member 1
3859	19727	NM_031687	h, ff	ubiquitin A-52 residue ribosomal protein fusion product 1	ubiquitin A-52 residue ribosomal protein fusion product 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3862	13706	NM_031699	ss	claudin 1	claudin 1
3864	25652	NM_031704	q	syntaxin 5a	syntaxin 5a
3864	20718	NM_031704	n	syntaxin 5a	syntaxin 5a
3864	20719	NM_031704	b, q, y, dd	syntaxin 5a	syntaxin 5a
3874	17554	NM_031736	o, vv	solute carrier family 27 (fatty acid transporter), member 2	solute carrier family 27 (fatty acid transporter), member 2
3886	15647	NM_031773	l, y	RNA polymerase I (127 kDa subunit)	RNA polymerase I (127 kDa subunit)
3896	2114	NM_031798	u, kk	solute carrier family 12, member 2	solute carrier family 12, member 2
3901	10676	NM_031818	t	intracellular chloride ion channel protein p64H1	intracellular chloride ion channel protein p64H1
3902	2655	NM_031821	l, kk, nn, tt	serum-inducible kinase	serum-inducible kinase
3904	4748	NM_031834	k, cc, vv	sulfotransferase family 1A, phenol-preferring, member 1	sulfotransferase family 1A, phenol-preferring, member 1
3904	4749	NM_031834	b, k, l, ii	Aryl sulfotransferase cytosolic, 1A, phenol-preferring, member 3, sulfotransferase family 1A, phenol-preferring, member 1	Aryl sulfotransferase cytosolic, 1A, phenol-preferring, member 3, sulfotransferase family 1A, phenol-preferring, member 1
3910	15069	NM_031840	k, s, jj	Farnesyl diphosphate synthase	Farnesyl diphosphate synthase
3910	15070	NM_031840	ii, jj, rr	Farnesyl diphosphate synthase	Farnesyl diphosphate synthase
3910	25460	NM_031840	k, jj	Farnesyl diphosphate synthase	Farnesyl diphosphate synthase
3930	860	NM_032063	mm	delta (Drosophila)-like 1	delta (Drosophila)-like 1
3931	18494	NM_032079	n, ff, pp	DnaJ (Hsp40) homolog, subfamily A, member 2	DnaJ (Hsp40) homolog, subfamily A, member 2
3934	12299	NM_032416	a, General	aldehyde dehydrogenase 2, mitochondrial	aldehyde dehydrogenase 2, mitochondrial
3940	17829	NM_033234	v	Hemoglobin, beta	Hemoglobin, beta
3952	1311	NM_053291	j, s, t	phosphoglycerate kinase 1	phosphoglycerate kinase 1
3958	1063	NM_053328	p, t, ff	basic helix-loop-helix domain containing, class B2	basic helix-loop-helix domain containing, class B2
3960	14928	NM_053330	ff, gg, hh	ribosomal protein L21	ribosomal protein L21
3965	14042	NM_053348	cc	fetuin beta	fetuin beta
4007	20831	NM_053589	g	GTPase Rab14	GTPase Rab14
4020	1178	NM_053620	ll	Cdc42-binding protein kinase beta	Cdc42-binding protein kinase beta
4072	17728	NM_053867	n, ee	tumor protein, translationally-controlled 1	tumor protein, translationally-controlled 1
4073	19781	NM_053883	q, tt	dual specificity phosphatase 6	dual specificity phosphatase 6
4075	14992	NM_053886	dd	lectin, mannose-binding, 1	lectin, mannose-binding, 1
4107	23250	NM_057097	m	vesicle-associated membrane protein 3	vesicle-associated membrane protein 3
4122	2413	NM_057141	l, n	heterogeneous nuclear ribonucleoprotein K	heterogeneous nuclear ribonucleoprotein K
4122	2416	NM_057141	w	heterogeneous nuclear ribonucleoprotein K	heterogeneous nuclear ribonucleoprotein K

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4128	8641	NM_057211	f	Kruppel-like factor 9	Kruppel-like factor 9
4130	10498	NM_078617	w, y	ribosomal protein S23	ribosomal protein S23
4168	8436	NM_133299	b, General, vv	peroxisomal 2-enoyl-CoA reductase	peroxisomal 2-enoyl-CoA reductase
4175	656	NM_133380	x	Interleukin 4 receptor	Interleukin 4 receptor
4206	17112	NM_134326	ee	Albumin, Glutathione peroxidase 1	Albumin, Glutathione peroxidase 1
4239	15189	NM_138826	q, w	Metallothionein 1 A	Metallothionein
4239	15190	NM_138826	n, w, ii	Metallothionein 1 A	Metallothionein
4245	16354	NM_138843	v, xx	mercaptopyruvate sulfurtransferase	mercaptopyruvate sulfurtransferase
4250	9896	NM_138878	p	Neural precursor cell expressed, developmentally down-regulated gene 8	Neural precursor cell expressed, developmentally down-regulated gene 8
4260	1858	NM_138907	o, q, jj, xx	acyl-CoA thioesterase 1, cytosolic, mitochondrial acyl-CoA thioesterase 1	acyl-CoA thioesterase 1, cytosolic, mitochondrial acyl-CoA thioesterase 1
4325	19429	R47028	n	dimethylarginine dimethylaminohydrolase 1	dimethylarginine dimethylaminohydrolase 1
4333	8210	S61960	e	ferritin light chain 1	ferritin light chain 1
4361	1392	U10188	j	Polo-like kinase homolog	Polo-like kinase homolog
4383	17078	U53859	k, jj	calpain, small subunit 1	calpain, small subunit 1
4383	17079	U53859	jj	calpain, small subunit 1	calpain, small subunit 1
4385	25608	U53927	t, ff	cationic amino acid transporter-2A	cationic amino acid transporter-2A
4422	10819	X51536	h, k	ribosomal protein S3	ESTs, Highly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus]
4434	1037	X57523	a, qq	Transporter 1, ABC (ATP binding cassette)	Transporter 1, ABC (ATP binding cassette)
4437	18611	X58200	h, l, General, ee	ribosomal protein L29	ribosomal protein L29
4445	15875	X62145	ee, gg, hh	ribosomal protein L8	ESTs, Highly similar to RL8_HUMAN 60S ribosomal protein L8 [R.norvegicus]
4450	20821	X62671	ll	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox derived)	ESTs, Highly similar to UBIM_RAT UBIQUITIN-LIKE PROTEIN FUBI [R.norvegicus]
4452	6376	X62951	xx	dimethylarginine dimethylaminohydrolase 1	dimethylarginine dimethylaminohydrolase 1
4454	16413	X65036	oo	alpha 7A integrin	alpha 7A integrin
4454	16414	X65036	u	alpha 7A integrin	alpha 7A integrin
4463	11260	X77934	t, mm	Amyloid protein precursor-like protein 2	Amyloid protein precursor-like protein 2
80	21042	AA799814	p	HMM:MAP kinase-activated protein kinase 2	ESTs, Weakly similar to A34366 Ca2+/calmodulin-dependent protein kinase (EC 2.7.1.123) II delta chain - rat [R.norvegicus]

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119	19020	AA800291	e, h, n	HMm:guanylate kinase 1	ESTs, Weakly similar to discs, large homolog 3 (Drosophila) [Rattus norvegicus] [R.norvegicus]
665	22537	AA892799	kk	HMm:glyoxylate reductase/hydroxypyruvate reductase	ESTs, Weakly similar to 3-phosphoglycerate dehydrogenase [Rattus norvegicus] [R.norvegicus]
665	22538	AA892799	z	HMm:glyoxylate reductase/hydroxypyruvate reductase	ESTs, Weakly similar to 3-phosphoglycerate dehydrogenase [Rattus norvegicus] [R.norvegicus]
850	22540	AA924630	ff	HMm:glyoxylate reductase/hydroxypyruvate reductase	ESTs, Weakly similar to 3-phosphoglycerate dehydrogenase [Rattus norvegicus] [R.norvegicus]
873	21010	AA925306	o	HMm:carnitine acetyltransferase	ESTs, Weakly similar to 1701410A choline acetyltransferase [Rattus norvegicus] [R.norvegicus]
1165	2915	AA996782	ww	HMm:lamin B2	ESTs, Moderately similar to lamin B1 [Rattus norvegicus] [R.norvegicus]
1295	21563	AI007750	gg, hh	HMm:ubiquitin-conjugating enzyme E2L 3	ESTs, Weakly similar to ubiquitin-conjugating enzyme E2D 2 [Rattus norvegicus] [R.norvegicus]
1373	12310	AI010362	gg, hh	HMm:cullin 1	ESTs, Weakly similar to vasopressin-activated calcium-mobilizing receptor protein [Rattus norvegicus] [R.norvegicus]
1429	20817	AI012589	c	glutathione S-transferase, pi 2	glutathione S-transferase, pi 2
1894	2364	AI103379	General	HMm:ubiquitin-activating enzyme E1, Chr X	ESTs, Highly similar to I63168 gene Ube1x protein - rat (fragment) [R.norvegicus]
2084	17812	AI169075	uu	HMm:glutathione transferase zeta 1 (maleylacetoacetate isomerase)	ESTs, Weakly similar to GTO1_RAT Glutathione transferase omega 1 (GSTO 1-1) (Glutathione-dependent dehydroascorbate reductase) [R.norvegicus]
2320	14384	AI177096	e	HMm:adenine phosphoribosyl transferase	ESTs, Highly similar to APT_RAT ADENINE PHOSPHORIBOSYLTRANSFERASE (APRT) [R.norvegicus]
2336	8949	AI177593	l, General	HMm:ATPase, H <sup>+</sup> transporting, lysosomal 21kDa, V0 subunit B	ESTs, Weakly similar to VATL_MOUSE Vacuolar ATP synthase 16 kDa proteolipid subunit [R.norvegicus]
2469	21505	AI228005	bb	HMm:deoxyguanosine kinase	ESTs, Weakly similar to deoxycytidine kinase [Rattus norvegicus] [R.norvegicus]
2591	22542	AI232066	ff	HMm:glyoxylate reductase/hydroxypyruvate reductase	ESTs, Weakly similar to 3-phosphoglycerate dehydrogenase [Rattus norvegicus] [R.norvegicus]
2793	21043	AI237813	mm	HMm:MAP kinase-activated protein kinase 2	ESTs, Weakly similar to A34366 Ca <sup>2+</sup> /calmodulin-dependent protein kinase (EC 2.7.1.123) II delta chain - rat [R.norvegicus]
3389	17715	NM_017274	ss, xx	glycerol-3-phosphate acyltransferase, mitochondrial	glycerol-3-phosphate acyltransferase, mitochondrial

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3389	20282	NM_017274	y	glycerol-3-phosphate acyltransferase, mitochondrial	glycerol-3-phosphate acyltransferase, mitochondrial
3425	14979	NM_019126	u, bb, jj	Carcinoembryonic antigen gene family (CGM3)	Carcinoembryonic antigen gene family (CGM3)
3504	904	NM_019620	d, n, gg, hh, kk, tt	Kruppel associated box (KRAB) zinc finger 1	Kruppel associated box (KRAB) zinc finger 1
3602	21023	NM_022599	h, l, General	synaptojanin 2 binding protein	synaptojanin 2 binding protein
3768	21624	NM_031144	mm	actin, beta	actin, beta
3768	21625	NM_031144	z	actin, beta	actin, beta
4242	2100	NM_138829	ll	golgi reassembly stacking protein 2	golgi reassembly stacking protein 2
4260	18082	NM_138907	nn	mitochondrial acyl-CoA thioesterase 1	mitochondrial acyl-CoA thioesterase 1
4260	18083	NM_138907	m, o, jj, nn, xx	mitochondrial acyl-CoA thioesterase 1	mitochondrial acyl-CoA thioesterase 1
4397	23926	U86635	d, oo	glutathione S-transferase, mu 5	glutathione S-transferase, mu 5
33	17613	AA799511	ww		ESTs, Weakly similar to DDRT helix-destabilizing protein - rat [R.norvegicus]
38	17599	AA799539	o		ESTs, Weakly similar to KEAP_RAT Kelch-like ECH-associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) [R.norvegicus]
45	18361	AA799591	j, tt		ESTs, Highly similar to TBB1_RAT TUBULIN BETA CHAIN (T BETA-15) [R.norvegicus]
56	20982	AA799657	x, qq		ESTs, Weakly similar to S68418 protein phosphatase 1M chain M110 isoform - rat (fragment) [R.norvegicus]
77	20998	AA799803	b, General		ESTs, Weakly similar to JC6554 complement subcomponent C1s (EC 3.4.21.42) precursor [similarity] - rat [R.norvegicus]
97	16712	AA800015	v	integrin-linked kinase	integrin-linked kinase
117	21665	AA800272	e, s		ESTs, Highly similar to RM03_RAT Mitochondrial 60S ribosomal protein L3 [R.norvegicus]
124	9089	AA800389	d		ESTs, Weakly similar to A48157 renal transcription factor Kid-1 - rat [R.norvegicus]
126	6892	AA800551	p	DnaJ-like protein	DnaJ-like protein
140	12072	AA800680	g		ESTs, Weakly similar to S68418 protein phosphatase 1M chain M110 isoform - rat (fragment) [R.norvegicus]
165	21415	AA800948	l, mm		ESTs, Highly similar to 0812252A tubulin alpha [Rattus norvegicus] [R.norvegicus]
189	9840	AA817964	g	paraoxonase 1	paraoxonase 1
199	6526	AA818118	gg, hh		ESTs, Weakly similar to cold inducible RNA-binding protein [Rattus norvegicus] [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
201	6016	AA818163	x		ESTs, Weakly similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum arylalkylphosphatase 1) (A-esterase 1) (Aromatic esterase 1) [R.norvegicus]
202	17771	AA818224	l		Rat mRNA for beta-tubulin T beta15
269	17614	AA848306	t, ll, tt		ESTs, Weakly similar to DDRT helix-destabilizing protein - rat [R.norvegicus]
277	23355	AA848530	l, bb		ESTs, Weakly similar to retinoblastoma binding protein 7 [Rattus norvegicus] [R.norvegicus]
297	6635	AA849786	bb, ll		ESTs, Weakly similar to CLK3_RAT Protein kinase CLK3 (CDC-like kinase 3) [R.norvegicus]
316	14324	AA850402	n		ESTs, Moderately similar to S21348 probable pol polyprotein-related protein 4 - rat [R.norvegicus]
372	14987	AA858640	o	heat shock protein 60 (liver)	Rattus norvegicus CDK110 mRNA, heat shock protein 60 (liver)
390	19105	AA859230	v, x		ESTs, Weakly similar to HG17_RAT NONHISTONE CHROMOSOMAL PROTEIN HMG-17 [R.norvegicus]
410	11317	AA859631	oo		ESTs, Weakly similar to ZF37_RAT Zinc finger protein 37 (Zfp-37) [R.norvegicus]
411	16318	AA859648	c		ESTs, Weakly similar to DJA1_MOUSE DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein homolog 2) (HSJ-2) [R.norvegicus]
433	23301	AA859975	w	2-oxoglutarate carrier	2-oxoglutarate carrier
439	19332	AA860014	e		EST, Moderately similar to 2206405A hemoglobin:SUBUNIT=zeta [Rattus norvegicus] [R.norvegicus]
465	16082	AA874887	ww		ESTs, Weakly similar to segregation of mitotic chromosomes b; SMC (segregation of mitotic chromosomes 1)-like 1 (yeast) [Rattus norvegicus] [R.norvegicus]
478	14951	AA875037	y		ESTs, Weakly similar to plasminogen activator inhibitor 2 type A [Rattus norvegicus] [R.norvegicus]
482	16327	AA875050	c, oo		ESTs, Weakly similar to KICE_RAT Choline/ethanolamine kinase [Includes: Choline kinase (CK); Ethanolamine kinase (EK)] [R.norvegicus]
486	20701	AA875097	b, m, General		EST, Highly similar to FIBA_RAT Fibrinogen alpha/alpha-E chain precursor [R.norvegicus]
501	15933	AA875253	q	ADP-ribosylation factor-like 1	ADP-ribosylation factor-like 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
516	16516	AA875563	x		ESTs, Weakly similar to I56519 taipoxin-associated calcium binding protein-49 precursor - rat [R.norvegicus]
533	9136	AA891226	rr, tt		ESTs, Highly similar to PSB5_RAT Proteasome subunit beta type 5 precursor (Proteasome epsilon chain) (Macropain epsilon chain) (Multicatalytic endopeptidase complex epsilon chain) (Proteasome subunit X) (Proteasome chain 6) [R.norvegicus]
547	2753	AA891589	e	sarcosine dehydrogenase	ESTs, sarcosine dehydrogenase
562	18269	AA891769	z		ESTs, Weakly similar to SC65 synaptonemal complex protein [Rattus norvegicus] [R.norvegicus]
606	17350	AA892240	k		ESTs, Weakly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus]
613	4486	AA892298	w		ESTs, Weakly similar to matrin cyclophilin (matrin-cyp) [Rattus norvegicus] [R.norvegicus]
621	13647	AA892367	z, General, ii, rr		ESTs, Highly similar to RL3_RAT 60S RIBOSOMAL PROTEIN L3 (L4) [R.norvegicus]
623	19226	AA892394	a		ESTs, Weakly similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus]
623	19227	AA892394	a, w		ESTs, Weakly similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus]
631	9254	AA892470	j, q, nn, oo		ESTs, Highly similar to S03644 histone H2A.Z - rat [R.norvegicus]
632	11992	AA892485	kk	dihydrolipoamide acetyltransferase	dihydrolipoamide acetyltransferase
649	15876	AA892582	l, General		ESTs, Highly similar to RL8_HUMAN 60S ribosomal protein L8 [R.norvegicus]
658	4487	AA892680	e, p		ESTs, Weakly similar to matrin cyclophilin (matrin-cyp) [Rattus norvegicus] [R.norvegicus]
667	6951	AA892820	bb		ESTs, Weakly similar to S70642 ubiquitin ligase Nedd4 - rat (fragment) [R.norvegicus]
671	7148	AA892842	gg, hh		ESTs, Weakly similar to CAZ3_RAT F-actin capping protein alpha-3 subunit (CAPZ alpha-3) [R.norvegicus]
679	3438	AA892921	r		ESTs, Weakly similar to A55143 calpain (EC 3.4.22.17) light chain - rat (fragment) [R.norvegicus]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
680	16482	AA892940	x		ESTs, Weakly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus]
691	24179	AA893091	nn, tt		ESTs, Weakly similar to TC17_RAT Zinc finger protein 354A (Transcription factor 17) (Renal transcription factor Kid-1) (Kidney, ischemia, and developmentally regulated protein-1) [R.norvegicus]
725	17836	AA893626	uu		ESTs, Weakly similar to guanine nucleotide-binding protein, beta-1# subunit [Rattus norvegicus] [R.norvegicus]
743	7637	AA894089	k, x	rotein carrying the RING-H2 sequence motif	rotein carrying the RING-H2 sequence motif
746	18419	AA894130	n, General, ww		ESTs, Weakly similar to 2019243A amyloid precursor-like protein 2 [Rattus norvegicus] [R.norvegicus]
754	15274	AA894258	General, kk	ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5)	ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5)
755	3908	AA894259	j		ESTs, Weakly similar to hypoxia induced gene 1 [Rattus norvegicus] [R.norvegicus]
795	6483	AA900461	v		ESTs, Weakly similar to OBRG_RAT Leptin receptor gene-related protein (OB-R gene related protein) (OB-RGRP) [R.norvegicus]
804	18547	AA900722	ii	solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 2	solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 2
824	22980	AA923973	y	seven in absentia 1A	seven in absentia 1A
855	5019	AA924768	b		ESTs, Weakly similar to DnaJ (Hsp40) homolog, subfamily A, member 2 [Rattus norvegicus] [R.norvegicus]
867	23261	AA925145	b, uu, vv		ESTs, Weakly similar to betaine-homocysteine methyltransferase [Rattus norvegicus] [R.norvegicus]
868	10666	AA925212	kk	siah binding protein 1; FBP interacting repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein-binding protein 1	siah binding protein 1; FBP interacting repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein-binding protein 1
964	14763	AA944481	s, ff, nn		ESTs, Weakly similar to FCN2_RAT Ficolin 2 precursor (Collagen/fibrinogen domain-containing protein 2) (Ficolin-B) (Ficolin B) (Serum lectin P35) (EBP-37) (Hucolin) [R.norvegicus]
977	2893	AA944833	kk		ESTs, Weakly similar to ROD_RAT Heterogeneous nuclear ribonucleoprotein D0 (hnRNP D0) (AU-rich element RNA-binding protein 1) [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
999	22607	AA945580	b		ESTs, Weakly similar to ARG2_RAT Arginase II, mitochondrial precursor (Non-hepatic arginase) (Kidney-type arginase) [R.norvegicus]
1012	17721	AA945762	General		ESTs, Weakly similar to 2102279A protein Tyr phosphatase [Rattus norvegicus] [R.norvegicus]
1017	22680	AA945883	j		ESTs, Weakly similar to JC5598 mucin - rat [R.norvegicus]
1030	22753	AA946300	i, General		Rattus norvegicus cytochrome P450-like protein mRNA, partial cds
1041	643	AA946439	c, ii, tt		ESTs, Highly similar to HSRT4 histone H4 - rat [R.norvegicus]
1048	23584	AA955071	ff	retinoid X receptor gamma (	retinoid X receptor gamma (
1052	22596	AA955298	c		ESTs, Weakly similar to T46637 transcription factor 1, neural - rat [R.norvegicus]
1055	23542	AA955389	pp		ESTs, Weakly similar to GRB2_HUMAN Growth factor receptor-bound protein 2 (GRB2 adapter protein) (SH2/SH3 adapter GRB2) (ASH protein) [R.norvegicus]
1079	11050	AA956164	ii		ESTs, Weakly similar to JQ0866 T-complex protein 1 - rat [R.norvegicus]
1082	23747	AA956329	gg, hh		ESTs, Moderately similar to delta-6 fatty acid desaturase [Rattus norvegicus] [R.norvegicus]
1084	25112	AA956437	d		ESTs, Weakly similar to TERA_RAT TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE (TER ATPASE) (15S MG(2+)-ATPASE P97 SUBUNIT) (VALOSIN CONTAINING PROTEIN) (VCP) [CONTAINS: VALOSIN] [R.norvegicus]
1091	6174	AA957063	tt		ESTs, Weakly similar to E2BE_RAT TRANSLATION INITIATION FACTOR EIF-2B EPSILON SUBUNIT (EIF-2B GDP-GTP EXCHANGE FACTOR) [R.norvegicus]
1099	24050	AA957449	v		ESTs, Weakly similar to SNK_RAT Serine/threonine-protein kinase SNK (Serum inducible kinase) [R.norvegicus]
1101	12479	AA957557	a, vv		ESTs, Weakly similar to ITH3_RAT Inter-alpha-trypsin inhibitor heavy chain H3 precursor (ITI heavy chain H3) [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1110	23541	AA957999	f, l, nn		ESTs, Weakly similar to TXTP_RAT Tricarboxylate transport protein, mitochondrial precursor (Citrate transport protein) (CTP) (Tricarboxylate carrier protein) [R.norvegicus]
1190	13330	AA997716	ll	Kelch-like ECH-associated protein 1	Kelch-like ECH-associated protein 1
1213	3746	AA998268	b, bb		ESTs, Weakly similar to SYPH_RAT SYNAPTOPHYSIN (MAJOR SYNAPTIC VESICLE PROTEIN P38) [R.norvegicus]
1216	14379	AA998415	rr		ESTs, Weakly similar to A40016 matrin 3 - rat [R.norvegicus]
1244	11745	AB006450	gg, hh	translocator of inner mitochondrial membrane 17 kDa, a	translocator of inner mitochondrial membrane 17 kDa, a
1255	18192	AF000899	s, tt	nucleoporin p58	Rattus norvegicus p58/p45 mRNA, alternatively spliced form, clone H6, 3' end, nucleoporin p58
1260	19649	AF016387	pp	retinoid X receptor gamma (	retinoid X receptor gamma (
1260	19650	AF016387	s	retinoid X receptor gamma (	retinoid X receptor gamma (
1270	8008	AF039584	xx	decay-accelerating factor	decay-accelerating factor
1274	15715	AF053092	ii		Rattus norvegicus polo-like kinase isoform mRNA, partial cds
1281	3896	AF077000	m	protein tyrosine phosphatase TD14	protein tyrosine phosphatase TD14
1283	20741	AF084186	nn	alpha-fodrin	alpha-fodrin
1288	2947	AF099093	f, kk	ubiquitin-conjugating enzyme UBC7	ubiquitin-conjugating enzyme UBC7
1289	12932	AF102552	x	ankyrin 3 (G)	ankyrin 3 (G)
1292	11251	AI007666	ii		ESTs, Weakly similar to JC4647 KW8 protein - rat [R.norvegicus]
1294	22332	AI007748	ff		ESTs, Weakly similar to OZF_RAT Zinc finger protein OZF (POZF-1) [R.norvegicus]
1322	21838	AI009131	ee, kk	laminin, gamma 1	laminin, gamma 1
1333	10820	AI009411	ee		ESTs, Highly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus]
1339	9746	AI009555	d, g		Rattus norvegicus dynein light intermediate chain 1 mRNA, complete cds
1350	22545	AI009747	z	transducer of ERBB2, 1	transducer of ERBB2, 1
1365	23540	AI010110	xx	SH3-domain GRB2-like 1	SH3-domain GRB2-like 1
1401	16112	AI011706	tt		ESTs, Weakly similar to SFR5_RAT Splicing factor, arginine/serine-rich 5 (Pre-mRNA splicing factor SRP40) (Insulin-induced growth response protein CL-4) (Delayed-early protein HRS) [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1415	21796	AI012221	vv		ESTs, Weakly similar to intracellular chloride ion channel protein p64H1 [Rattus norvegicus] [R.norvegicus]
1422	3417	AI012337	h, w		ESTs, Highly similar to NHPX_RAT NHP2-like protein 1 (High mobility group-like nuclear protein 2 homolog 1) ([U4/U6.U5] tri-snRNP 15.5 kDa protein) (OTK27) [R.norvegicus]
1427	1263	AI012567	bb		ESTs, Weakly similar to ZF94_RAT Zinc finger protein 94 (Zfp-94) (Zinc finger protein Y1) (RLZF-Y) [R.norvegicus]
1434	6489	AI012636	d		ESTs, Weakly similar to RBMA_RAT RNA-binding protein 10 (RNA binding motif protein 10) (S1-1 protein) [R.norvegicus]
1462	7258	AI013475	h		ESTs, Moderately similar to SORT_RAT Sortilin (Glycoprotein 110) (Gp110) [R.norvegicus]
1472	24239	AI013781	d		ESTs, Weakly similar to S19586 N-methyl-D-aspartate receptor glutamate-binding chain - rat [R.norvegicus]
1548	23949	AI031019	q	translation initiation factor eIF-2B alpha-subunit	translation initiation factor eIF-2B alpha-subunit
1548	23950	AI031019	n, q, x, ll	translation initiation factor eIF-2B alpha-subunit	translation initiation factor eIF-2B alpha-subunit
1572	5431	AI044257	l		ESTs, Weakly similar to syntenin [Rattus norvegicus] [R.norvegicus]
1591	18205	AI044836	h		ESTs, Weakly similar to NUCL_RAT Nucleolin (Protein C23) [R.norvegicus]
1647	10533	AI058430	qq		ESTs, Highly similar to HG17_RAT NONHISTONE CHROMOSOMAL PROTEIN HMG-17 [R.norvegicus]
1662	8584	AI058911	cc, ii, rr		ESTs, Weakly similar to FIBA_RAT Fibrinogen alpha/alpha-E chain precursor [R.norvegicus]
1670	14984	AI059174	h		Rattus norvegicus CDK110 mRNA
1686	6370	AI059568	g		ESTs, Highly similar to B48213 syntaxin 1B - rat [R.norvegicus]
1733	26184	AI070784	m		ESTs, Weakly similar to OZF_RAT Zinc finger protein OZF (POZF-1) [R.norvegicus]
1741	10999	AI071110	t		ESTs, Weakly similar to A44437 regenerating liver inhibitory factor RL/IF-1 - rat [R.norvegicus]
1762	21839	AI071644	f	laminin, gamma 1	laminin, gamma 1
1764	7092	AI071668	c		ESTs, Weakly similar to E2BE_RAT TRANSLATION INITIATION FACTOR EIF-2B EPSILON SUBUNIT (EIF-2B GDP-GTP EXCHANGE FACTOR) [R.norvegicus]

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1771	16376	AI071866	a, u		Rattus norvegicus Nclone10 mRNA
1794	21797	AI072439	qq		ESTs, Weakly similar to intracellular chloride ion channel protein p64H1 [Rattus norvegicus] [R.norvegicus]
1802	1501	AI072634	e, l, t, bb, dd, ww		Rattus norvegicus cytokeratin-18 mRNA, partial cds
1825	11183	AI100768	b		ESTs, Weakly similar to CAH2_RAT Carbonic anhydrase II (Carbonate dehydratase II) (CA-II) [R.norvegicus]
1832	6321	AI101256	ii, ll		ESTs, Weakly similar to S09017 heterogeneous ribonuclear particle protein type C - rat (fragment) [R.norvegicus]
1851	18649	AI101926	q		ESTs, Weakly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus]
1875	23538	AI102727	l, n, p	solute carrier family 20 (phosphate transporter), member 1	solute carrier family 20 (phosphate transporter), member 1
1885	15026	AI103094	General	ras-related protein	ras-related protein
1889	15981	AI103150	nn		ESTs, Weakly similar to ubiquitin conjugating enzyme [Rattus norvegicus] [R.norvegicus]
1895	8919	AI103388	dd, kk		ESTs, Weakly similar to ARF6_HUMAN ADP ribosylation factor 6 [R.norvegicus]
1896	14981	AI103396	ee		Rattus norvegicus CDK110 mRNA
1935	18831	AI104357	e		ESTs, Highly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin) [R.norvegicus]
1944	12342	AI104658	oo		ESTs, Weakly similar to A48152 zinc finger protein Gfi-1 - rat [R.norvegicus]
1956	15065	AI105050	p, ii, ll	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide
1979	11192	AI111986	g		ESTs, Weakly similar to S41067 collagen alpha 1(III) chain - rat [R.norvegicus]
2006	11735	AI136540	j		ESTs, Highly similar to TRT3_RAT Troponin T, fast skeletal muscle isoforms beta/alpha (Beta/alpha TnTF) [R.norvegicus]
2007	10780	AI136555	j		Rattus norvegicus mRNA for Castration Induced Prostatic Apoptosis Related protein-1 (CIPAR-1)
2023	8924	AI137283	z		ESTs, Weakly similar to TC17_RAT Zinc finger protein 354A (Transcription factor 17) (Renal transcription factor Kid-1) (Kidney, ischemia, and developmentally regulated protein-1) [R.norvegicus]
2072	1358	AI146154	mm	phosphatidylinositol 4-kinase	phosphatidylinositol 4-kinase

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2085	1335	AI169105	ss		ESTs, Weakly similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum arylalkylphosphatase 1) (A-esterase 1) (Aromatic esterase 1) [R.norvegicus]
2094	18641	AI169225	ee		Rattus norvegicus mRNA for ribosomal protein L35
2096	22661	AI169265	t, mm	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), subunit 1	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), subunit 1
2131	14938	AI170362	qq		ESTs, Weakly similar to I67414 nuclear factor kappa B - rat (fragment) [R.norvegicus]
2145	15403	AI170714	m, dd		ESTs, Weakly similar to A40389 translation elongation factor eEF-1 alpha chain (clone pS1) - rat [R.norvegicus]
2155	18535	AI170979	dd, oo		ESTs, Weakly similar to REQN_RAT Zinc-finger protein neuro-d4 [R.norvegicus]
2160	17783	AI171206	vv		ESTs, Weakly similar to 2118320A neurodegeneration-associated protein 1 [Rattus norvegicus] [R.norvegicus]
2170	11419	AI171365	k		ESTs, Weakly similar to A57514 RNA helicase HEL117 - rat [R.norvegicus]
2181	6879	AI171674	t	Very low density lipoprotein receptor	Very low density lipoprotein receptor
2204	6630	AI172184	b		ESTs, Weakly similar to SYPH_RAT SYNAPTOPHYSIN (MAJOR SYNAPTIC VESICLE PROTEIN P38) [R.norvegicus]
2216	23325	AI172405	bb		ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus]
2247	15404	AI175760	dd		ESTs, Weakly similar to A40389 translation elongation factor eEF-1 alpha chain (clone pS1) - rat [R.norvegicus]
2271	13339	AI176308	r		ESTs, Weakly similar to CO1B_RAT Coronin 1B (Coronin 2) [R.norvegicus]
2335	17773	AI177513	y		ESTs, Weakly similar to CLK3_RAT Protein kinase CLK3 (CDC-like kinase 3) [R.norvegicus]
2355	4979	AI178133	ss		ESTs, Weakly similar to LIS1_MOUSE Platelet-activating factor acetylhydrolase IB alpha subunit (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH alpha) (Lissencephaly-1 protein) (LIS-1) [R.norvegicus]
2384	12408	AI178762	qq		ESTs, Moderately similar to delta-6 fatty acid desaturase [Rattus norvegicus] [R.norvegicus]

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2395	23043	AI178968	nn		ESTs, Weakly similar to S70642 ubiquitin ligase Nedd4 - rat (fragment) [R.norvegicus]
2403	17890	AI179123	j, mm		ESTs, Weakly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus]
2429	16656	AI179634	h		ESTs, Weakly similar to Gasz [Rattus norvegicus] [R.norvegicus]
2440	6455	AI179984	vv		ESTs, Weakly similar to CPI3_RAT CONTRAPSIN-LIKE PROTEASE INHIBITOR 3 PRECURSOR (CPI-23) (SERINE PROTEASE INHIBITOR 1) (SPI-1) [R.norvegicus]
2468	12413	AI227953	t, mm		ESTs, Weakly similar to K6A1_RAT Ribosomal protein S6 kinase alpha 1 (S6K-alpha 1) (90 kDa ribosomal protein S6 kinase 1) (p90-RSK 1) (Ribosomal S6 kinase 1) (RSK-1) (pp90RSK1) [R.norvegicus]
2505	6604	AI229192	xx		ESTs, Weakly similar to 2209311A coagulation factor X [Rattus norvegicus] [R.norvegicus]
2515	23858	AI229450	r		ESTs, Weakly similar to A57514 RNA helicase HEL117 - rat [R.norvegicus]
2530	18650	AI230121	q, ii, ll		ESTs, Weakly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus]
2566	21816	AI231217	ee		ESTs, Highly similar to S611_HUMAN Protein transport protein Sec61 alpha subunit isoform 1 (Sec61 alpha-1) [R.norvegicus]
2605	8390	AI232288	ww		ESTs, Weakly similar to retinoblastoma binding protein 7 [Rattus norvegicus] [R.norvegicus]
2624	5602	AI232611	o, ff, xx		ESTs, Weakly similar to MTE1_RAT Acyl coenzyme A thioester hydrolase, mitochondrial precursor (Very-long-chain acyl-CoA thioesterase) (MTE-I) [R.norvegicus]
2636	12873	AI232984	tt		ESTs, Weakly similar to OZF_RAT Zinc finger protein OZF (POZF-1) [R.norvegicus]
2641	4442	AI233163	gg, hh		ESTs, Highly similar to RL11_HUMAN 60S ribosomal protein L11 [R.norvegicus]
2713	22070	AI235528	jj		ESTs, Weakly similar to synuclein, gamma [Rattus norvegicus] [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2726	7307	AI235935	g, oo		ESTs, Weakly similar to C1TC_RAT C-1-tetrahydrofolate synthase, cytoplasmic (C1-THF synthase) [Includes: Methylenetetrahydrofolate dehydrogenase ; Methenyltetrahydrofolate cyclohydrolase ; Formyltetrahydrofolate synthetase ] [R.norvegicus]
2730	7604	AI236039	ll	reticulocalbin	reticulocalbin
2740	13911	AI236262	ww		Rattus norvegicus epidermal Langerhans cell protein LCP1 mRNA, complete cds
2742	10667	AI236366	dd	siah binding protein 1; FBP interacting repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein-binding protein 1	siah binding protein 1; FBP interacting repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein-binding protein 1
2755	6207	AI236681	gg, hh		ESTs, Weakly similar to SUI5_RAT Sucrase-isomaltase, intestinal [Contains: Sucrase ; Isomaltase ] [R.norvegicus]
2762	17618	AI236786	p, rr		ESTs, Weakly similar to FK506 binding protein 2 (13 kDa) [Rattus norvegicus] [R.norvegicus]
2778	23076	AI237388	q, dd		ESTs, Weakly similar to IFR1_RAT INTERFERON-RELATED DEVELOPMENTAL REGULATOR 1 (NERVE GROWTH FACTOR-INDUCIBLE PROTEIN PC4) (IRPR) [R.norvegicus]
2851	18338	AI639422	g		ESTs, Moderately similar to CAQC_RAT CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR [R.norvegicus]
2858	26012	AI639478	pp		ESTs, Weakly similar to PDI_RAT Protein disulfide isomerase precursor (PDI) (Prolyl 4-hydroxylase beta subunit) (Cellular thyroid hormone binding protein) (Thyroxine deiodinase) (Iodothyronine 5'-monodeiodinase) (5'-MD) [R.norvegicus]
2867	8107	AI639534	pp		ESTs, Weakly similar to ATS4_RAT ADAMTS-4 precursor (A disintegrin and metalloproteinase with thrombospondin motifs 4) (ADAM-TS 4) (ADAM-TS4) (Aggrecanase 1) [R.norvegicus]
2872	7602	AJ001929	b, q, v, ii, ll, xx	reticulocalbin	reticulocalbin
2876	20519	C06598	v, w		ESTs, Weakly similar to FK506 binding protein 2 (13 kDa) [Rattus norvegicus] [R.norvegicus]
2877	5048	D00092	oo	dihydrolipoamide acetyltransferase	dihydrolipoamide acetyltransferase
2881	5049	D10655	m	dihydrolipoamide acetyltransferase	dihydrolipoamide acetyltransferase



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2886	5082	D14015	ii, ww	Cyclin E1	ESTs, Highly similar to CGE1_RAT G1/S-specific cyclin E1 [R.norvegicus]	
2898	1041	D78610	x	Protein tyrosine phosphatase, receptor type, epsilon polypeptide	Protein tyrosine phosphatase, receptor type, epsilon polypeptide	
2899	1356	D83538	y	phosphatidylinositol 4-kinase	phosphatidylinositol 4-kinase	
2900	2744	D87991	b, e, q, dd		ESTs, Highly similar to JC5026 UDP-galactose transporter related protein 1 - rat [R.norvegicus]	
2915	4352	H31692	x	GERp95	GERp95	
2919	9745	H31847	c, h		Rattus norvegicus dynein light intermediate chain 1 mRNA, complete cds	
2921	3815	H31907	u	G protein pathway suppressor 1	G protein pathway suppressor 1	
2952	14968	K02815	f	butyrophilin-like 2 (MHC class II associated)	butyrophilin-like 2 (MHC class II associated)	
2964	107	L14001	General, mm		Rattus norvegicus clone 15 polymeric immunoglobulin receptor mRNA, 3'UTR microsatellite repeats	
2965	108	L14002	l, m, u, General, cc, kk, vv		Rattus norvegicus clone 15 polymeric immunoglobulin receptor mRNA, 3'UTR microsatellite repeats	
2967	109	L14004	b, General, vv		Rattus norvegicus clone 15 polymeric immunoglobulin receptor mRNA, 3'UTR microsatellite repeats	
2972	24518	L19927	t, y, mm	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, gamma polypeptide 1	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, gamma polypeptide 1	
2981	18620	L40364	gg, hh		Rattus norvegicus MHC class I RT1.O type - 149 processed pseudogene mRNA	
2982	25389	L41684	ll	FAT tumor suppressor (Drosophila) homolog	FAT tumor suppressor (Drosophila) homolog	
2984	17883	M11851	ss		Rat heart myosin light chain 2 (MLC2) mRNA, 3' end	
2988	24554	M13749	m	Chorionic somatomammotropin hormone 2; Placental lactogen-2	Chorionic somatomammotropin hormone 2; Placental lactogen-2	
3015	17211	M34331	ee, ll		Rattus norvegicus mRNA for ribosomal protein L35	
3015	26030	M34331	bb, ll		Rattus norvegicus mRNA for ribosomal protein L35	
3040	2694	M92340	rr	Interleukin 6 signal transducer	Interleukin 6 signal transducer	
3099	18726	NM_012645	b, q, v, General, dd, oo, rr		Rattus norvegicus MHC class Ib RT1.S3 (RT1.S3) mRNA, partial cds	
3109	7101	NM_012679	nn	Clusterin	Clusterin	
3132	1478	NM_012744	kk	Pyruvate carboxylase	Pyruvate carboxylase	
3133	8829	NM_012749	q, xx	Nucleolin	Nucleolin	
3133	8831	NM_012749	g	Nucleolin	Nucleolin	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3138	721	NM_012780	tt	Aryl hydrocarbon receptor nuclear translocator 1	Aryl hydrocarbon receptor nuclear translocator 1
3164	20945	NM_012875	gg, hh	Ribosomal protein L39	Ribosomal protein L39
3191	19106	NM_012963	ss	High mobility group 1	High mobility group 1
3191	19107	NM_012963	cc	High mobility group 1	High mobility group 1
3191	19108	NM_012963	ii	High mobility group 1	High mobility group 1
3191	19109	NM_012963	ee	High mobility group 1	High mobility group 1
3191	19110	NM_012963	jj	High mobility group 1	High mobility group 1
3231	24607	NM_013075	n	Homeo box A1	Homeo box A1
3236	8898	NM_013087	q, tt	CD81 antigen (target of antiproliferative antibody 1)	CD81 antigen (target of antiproliferative antibody 1)
3255	24867	NM_013155	t, mm	Very low density lipoprotein receptor	Very low density lipoprotein receptor
3258	3465	NM_013160	ww		ESTs, Moderately similar to MXI1_RAT MAX interacting protein 1 (MXI1 protein) [R.norvegicus]
3270	1969	NM_013194	k, t, mm	Myosin, heavy polypeptide 9, non-muscle	Myosin, heavy polypeptide 9, non-muscle
3270	1970	NM_013194	t, mm	Myosin, heavy polypeptide 9, non-muscle	Myosin, heavy polypeptide 9, non-muscle
3278	18230	NM_013221	r		ESTs, Moderately similar to I58311 HMG-box containing protein 1 - rat [R.norvegicus]
3278	1495	NM_013221	f, General, qq, vv	HMG-box containing protein 1	HMG-box containing protein 1
3300	18139	NM_017033	General		ESTs, Highly similar to PMRT phosphoglucomutase (EC 5.4.2.2) 1 - rat [R.norvegicus]
3417	20848	NM_017343	x		Rat mRNA for myosin regulatory light chain (RLC)
3417	20849	NM_017343	r, ff		Rat mRNA for myosin regulatory light chain (RLC)
3419	537	NM_017351	h, ss, uu	pre-alpha-inhibitor, heavy chain 3	pre-alpha-inhibitor, heavy chain 3
3421	24428	NM_017356	nn	neural visinin-like Ca <sup>2+</sup> -binding protein type 3	neural visinin-like Ca <sup>2+</sup> -binding protein type 3
3426	24732	NM_019130	g	Insulin 2	Insulin 2
3432	20351	NM_019142	kk	5'-AMP-activated protein kinase alpha-1 catalytic subunit	5'-AMP-activated protein kinase alpha-1 catalytic subunit
3449	2933	NM_019204	e, m		ESTs, Highly similar to BACE_RAT Beta-secretase precursor (Beta-site APP cleaving enzyme) (Beta-site amyloid precursor protein cleaving enzyme) (Aspartyl protease 2) (Asp 2) (ASP2) (Membrane-associated aspartic protease 2) (Memapsin-2) [R.norvegicus]
3480	24883	NM_019293	e, k, u	carbonic anhydrase 5	carbonic anhydrase 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene-Name	Unigene Sequence Cluster Title
3482	1099	NM_019303	y	Cytochrome P450, subfamily IIF, polypeptide 1	Cytochrome P450, subfamily IIF, polypeptide 1
3483	16330	NM_019331	General, kk	Paired basic amino acid cleaving enzyme (furin)	Paired basic amino acid cleaving enzyme (furin)
3483	16331	NM_019331	h, m, General, mm	Paired basic amino acid cleaving enzyme (furin)	Paired basic amino acid cleaving enzyme (furin)
3486	16697	NM_019349	s	Serine/threonine kinase 2	Serine/threonine kinase 2
3486	16698	NM_019349	u	Serine/threonine kinase 2	Serine/threonine kinase 2
3490	23226	NM_019360	v, y, gg, hh	cytochrome oxidase subunit VIc	cytochrome oxidase subunit VIc
3513	20635	NM_020099	ee	OB-receptor gene related protein (OB-RGRP)	OB-receptor gene related protein (OB-RGRP)
3518	18724	NM_021585	b, ss		Rattus norvegicus MHC class Ib RT1.S3 (RT1.S3) mRNA, partial cds
3521	17340	NM_021594	General, dd	ERM-binding phosphoprotein	ERM-binding phosphoprotein
3523	19173	NM_021661	n	regulator of G-protein signalling 19	regulator of G-protein signalling 19
3547	20248	NM_022205	y	Chemokine receptor (LCR1)	Chemokine receptor (LCR1)
3547	20249	NM_022205	tt	Chemokine receptor (LCR1)	Chemokine receptor (LCR1)
3561	15932	NM_022385	q, x, dd	ADP-ribosylation factor-like 1	ADP-ribosylation factor-like 1
3565	22412	NM_022392	f, p, s, General, ee, ff	growth response protein (CL-6)	growth response protein (CL-6)
3565	22413	NM_022392	a, f, p, General, ee, ff, qq	growth response protein (CL-6)	growth response protein (CL-6)
3565	22414	NM_022392	ff	growth response protein (CL-6)	growth response protein (CL-6)
3565	22415	NM_022392	p, General, ff	growth response protein (CL-6)	growth response protein (CL-6)
3568	1141	NM_022401	f, n, r, z	plectin	plectin
3583	3902	NM_022516	ss	polypyrimidine tract binding protein	polypyrimidine tract binding protein
3591	8097	NM_022536	j, q, w, x	cyclophilin B	cyclophilin B
3592	8597	NM_022538	h, l	phosphatidate phosphohydrolase type 2a	phosphatidate phosphohydrolase type 2a
3592	8598	NM_022538	d	phosphatidate phosphohydrolase type 2a	phosphatidate phosphohydrolase type 2a
3594	12422	NM_022546	bb	Death-associated like kinase	Death-associated like kinase
3595	12606	NM_022547	General, vv	10-formyltetrahydrofolate dehydrogenase	10-formyltetrahydrofolate dehydrogenase
3598	20820	NM_022593	u	elongation factor SIII p15 subunit	elongation factor SIII p15 subunit
3609	12542	NM_022647	c, d, qq		ESTs, Highly similar to 0506206A histone H2B [Rattus norvegicus] [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3610	24442	NM_022667	u, General, rr	Matrin F/G	Matrin F/G
3622	24423	NM_022703	m, r, gg, hh, pp	small glutamine-rich tetratricopeptide repeat (TPR) containing protein (SGT)	small glutamine-rich tetratricopeptide repeat (TPR) containing protein (SGT)
3623	24458	NM_022706	b	GABA(A) receptor-associated protein like 2	GABA(A) receptor-associated protein like 2
3631	6891	NM_022934	t, gg, hh	DnaJ-like protein	DnaJ-like protein
3640	20681	NM_022952	u	clathrin-associated protein 17	clathrin-associated protein 17
3658	15367	NM_024149	r	ADP-ribosylation factor 5	ADP-ribosylation factor 5
3660	21696	NM_024152	f, oo	ADP-ribosylation factor 6	ADP-ribosylation factor 6
3683	23386	NM_024404	gg, hh	RNA binding protein p45AUF1	RNA binding protein p45AUF1
3683	25682	NM_024404	c, w	RNA binding protein p45AUF1	RNA binding protein p45AUF1
3694	1995	NM_030850	d, h, uu	betaine-homocysteine methyltransferase	betaine-homocysteine methyltransferase
3696	15186	NM_030861	g, p, General, rr	N-acetylglucosaminyltransferase I	N-acetylglucosaminyltransferase I
3696	15187	NM_030861	n, z, General, rr	N-acetylglucosaminyltransferase I	N-acetylglucosaminyltransferase I
3696	15188	NM_030861	d, s, General	N-acetylglucosaminyltransferase I	N-acetylglucosaminyltransferase I
3698	21800	NM_030987	r, w, z	Guanine nucleotide-binding protein beta 1	Guanine nucleotide-binding protein beta 1
3698	21801	NM_030987	gg, hh	Guanine nucleotide-binding protein beta 1	Guanine nucleotide-binding protein beta 1
3698	21806	NM_030987	s, u	Guanine nucleotide-binding protein beta 1	Guanine nucleotide-binding protein beta 1
3708	17302	NM_031008	tt	alpha-c large chain of the protein complex AP-2 associated with clathrin	alpha-c large chain of the protein complex AP-2 associated with clathrin
3711	1538	NM_031012	k, mm	alanyl (membrane) aminopeptidase	alanyl (membrane) aminopeptidase
3711	1540	NM_031012	n, dd, ee	alanyl (membrane) aminopeptidase	alanyl (membrane) aminopeptidase
3716	16560	NM_031020	t	p38 mitogen activated protein kinase	p38 mitogen activated protein kinase
3716	16562	NM_031020	l, p, ss, uu	p38 mitogen activated protein kinase	p38 mitogen activated protein kinase
3716	16564	NM_031020	k, l	p38 mitogen activated protein kinase	p38 mitogen activated protein kinase
3716	16565	NM_031020	t	p38 mitogen activated protein kinase	p38 mitogen activated protein kinase
3719	16210	NM_031026	r, w	LIC-2 dynein light intermediate chain 53/55	LIC-2 dynein light intermediate chain 53/55
3729	15137	NM_031051	w, y, ee, tt	macrophage migration inhibitory factor	macrophage migration inhibitory factor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3730	11899	NM_031052	rr	mitochondrial intermediate peptidase	mitochondrial intermediate peptidase
3739	6348	NM_031077	mm	PCTAIRE-1 protein kinase, alternatively spliced	PCTAIRE-1 protein kinase, alternatively spliced
3742	17173	NM_031090	u, cc	ras-related protein	ras-related protein
3747	20812	NM_031100	y, ee	ribosomal protein L10	ribosomal protein L10
3752	20807	NM_031106	h	ribosomal protein L37	ribosomal protein L37
3755	10878	NM_031110	j, General	ribosomal protein S11	ribosomal protein S11
3760	16671	NM_031125	tt	syntaxin 4	syntaxin 4
3765	15487	NM_031137	q, ww	tripeptidylpeptidase II	tripeptidylpeptidase II
3765	15489	NM_031137	bb, ll, ww	tripeptidylpeptidase II	tripeptidylpeptidase II
3766	17378	NM_031138	q	ubiquitin conjugating enzyme	ubiquitin conjugating enzyme
3766	17379	NM_031138	General	ubiquitin conjugating enzyme	ubiquitin conjugating enzyme
3769	23097	NM_031145	h, bb	calcium- and integrin-binding protein	calcium- and integrin-binding protein
3772	164	NM_031151	v	malate dehydrogenase mitochondrial	malate dehydrogenase mitochondrial
3773	238	NM_031152	ee	RAB11a, member RAS oncogene family	RAB11a, member RAS oncogene family
3773	240	NM_031152	x	RAB11a, member RAS oncogene family	RAB11a, member RAS oncogene family
3777	15277	NM_031237	n	ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5)	ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5)
3787	15360	NM_031335	p, v	polymerase II	EST, Moderately similar to RPB6_RAT DNA-directed RNA polymerase II 14.4 kDa polypeptide (RPB6) (RPB14.4) [R.norvegicus], polymerase II
3811	1822	NM_031553	c, ww	CCAAT binding transcription factor of CBF-B/NFY-B	CCAAT binding transcription factor of CBF-B/NFY-B
3830	20840	NM_031604	d	ATPase, H+ transporting, lysosomal (vacuolar proton pump) noncatalytic accessory protein 1 (110/160 kDa)	ATPase, H+ transporting, lysosomal (vacuolar proton pump) noncatalytic accessory protein 1 (110/160 kDa)
3830	20841	NM_031604	bb	ATPase, H+ transporting, lysosomal (vacuolar proton pump) noncatalytic accessory protein 1 (110/160 kDa)	ATPase, H+ transporting, lysosomal (vacuolar proton pump) noncatalytic accessory protein 1 (110/160 kDa)
3885	20752	NM_031763	ii	platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta)	platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta)
3885	20753	NM_031763	l, General, dd, pp	platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta)	platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta)
3892	16178	NM_031785	ii	ATPase, H+ transporting, lysosomal (vacuolar proton pump), subunit 1	ATPase, H+ transporting, lysosomal (vacuolar proton pump), subunit 1
3893	1169	NM_031789	d, w, bb, ll	NF-E2-related factor 2	NF-E2-related factor 2
3893	1170	NM_031789	d, ll	NF-E2-related factor 2	NF-E2-related factor 2

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3908	10267	NM_031838	h	ribosomal protein S2	ribosomal protein S2
3908	10269	NM_031838	w	ribosomal protein S2	ribosomal protein S2
3909	10949	NM_031839	rr	arachidonic acid epoxigenase	arachidonic acid epoxigenase
3914	22301	NM_031967	d	development-related protein	development-related protein
3926	19768	NM_031986	pp	syntenin	syntenin
3933	1573	NM_032083	bb, ss	chimerin (chimaerin) 1	chimerin (chimaerin) 1
3947	1410	NM_052798	o	zinc finger protein 354A	zinc finger protein 354A
3978	23811	NM_053436	ww	staufer (Drosophila, RNA-binding protein)	staufer (Drosophila, RNA-binding protein)
3980	14670	NM_053439	ee	RAN, member RAS oncogene family	RAN, member RAS oncogene family
4010	20902	NM_053593	cc	cyclin-dependent kinase 4	cyclin-dependent kinase 4
4026	20951	NM_053651	nn	NK2 transcription factor related, locus 5 (Drosophila)	NK2 transcription factor related, locus 5 (Drosophila)
4032	15735	NM_053665	n, ee	A kinase (PRKA) anchor protein 1	A kinase (PRKA) anchor protein 1
4032	15738	NM_053665	cc	A kinase (PRKA) anchor protein 1	A kinase (PRKA) anchor protein 1
4043	10909	NM_053756	o	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3
4047	14015	NM_053770	n, w	Arg/Abl-interacting protein ArgBP2	Arg/Abl-interacting protein ArgBP2
4047	14016	NM_053770	xx	Arg/Abl-interacting protein ArgBP2	Arg/Abl-interacting protein ArgBP2
4050	6290	NM_053795	tt	kinase D-interacting substance of 220 kDa	kinase D-interacting substance of 220 kDa
4055	16921	NM_053806	gg, hh, jj		ESTs, Weakly similar to S18140 hypoxanthine phosphoribosyltransferase (EC 2.4.2.8) - rat [R.norvegicus]
4055	19827	NM_053806	oo		ESTs, Weakly similar to OZF_RAT Zinc finger protein OZF (POZF-1) [R.norvegicus]
4059	20421	NM_053821	a, vv	v-rat simian leukemia viral oncogene homolog B (ras related)	v-rat simian leukemia viral oncogene homolog B (ras related)
4060	6110	NM_053824	x	casein kinase II, alpha 1 polypeptide	casein kinase II, alpha 1 polypeptide
4061	1601	NM_053826	t	pyruvate dehydrogenase kinase, isoenzyme 1	pyruvate dehydrogenase kinase, isoenzyme 1
4070	1570	NM_053857	k, l, m, General	eukaryotic translation initiation factor 4E binding protein 1	eukaryotic translation initiation factor 4E binding protein 1
4070	1571	NM_053857	l, m, q, General, dd	eukaryotic translation initiation factor 4E binding protein 1	eukaryotic translation initiation factor 4E binding protein 1
4071	18358	NM_053864	x	valosin-containing protein	valosin-containing protein
4076	1453	NM_053887	ff	mitogen activated protein kinase kinase kinase 1	mitogen activated protein kinase kinase kinase 1

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4076	1454	NM_053887	gg, hh	mitogen activated protein kinase kinase kinase 1	mitogen activated protein kinase kinase kinase 1
4077	1660	NM_053891	bb, ll, ww	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	cyclin-dependent kinase 5, regulatory subunit 1 (p35)
4078	16147	NM_053892	y	phospholipase A2, group VI	phospholipase A2, group VI
4090	16190	NM_053961	o		ESTs, Weakly similar to F Chain F, 2-Enoyl-CoA Hydratase, Data Collected At 100 K, Ph 6.5 [R.norvegicus]
4091	16546	NM_053965	o, ii	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20
4091	16547	NM_053965	o	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20
4094	17279	NM_053977	t, mm	cadherin 17	cadherin 17
4094	17280	NM_053977	mm	cadherin 17	cadherin 17
4095	15325	NM_053979	j	ADP-ribosylation factor-like 5	ADP-ribosylation factor-like 5
4101	17739	NM_053995	h, General, qq	3-hydroxybutyrate dehydrogenase (heart, mitochondrial)	3-hydroxybutyrate dehydrogenase (heart, mitochondrial)
4109	16043	NM_057100	jj		ESTs, Highly similar to growth arrest specific 6 [Rattus norvegicus] [R.norvegicus]
4110	17709	NM_057101	y	Tenascin X	Tenascin X
4116	23310	NM_057119	w	splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10	splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10
4123	15839	NM_057143	bb, kk	fertility protein SP22	fertility protein SP22
4127	18122	NM_057208	ee	tropomyosin 3, gamma	tropomyosin 3, gamma
4129	3831	NM_057213	e, General, cc, qq	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), beta 56/58 kDa, isoform 2	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), beta 56/58 kDa, isoform 2
4144	9952	NM_080902	xx	hypoxia induced gene 1	hypoxia induced gene 1
4154	18810	NM_130430	w, ss	mitochondrial H <sup>+</sup> -ATP synthase alpha subunit	mitochondrial H <sup>+</sup> -ATP synthase alpha subunit
4160	7864	NM_130823	c, gg, hh, oo, qq	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 16 kDa	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 16 kDa
4170	505	NM_133309	ss	calpain 8	calpain 8
4173	252	NM_133323	d	zinc finger protein 111	zinc finger protein 111
4180	10660	NM_133423	r, w	splicing factor YT521-B	splicing factor YT521-B
4181	16736	NM_133427	j	flavoheмоprotein b5+b5R	flavoheмоprotein b5+b5R
4182	5686	NM_133428	dd	histidine-rich glycoprotein	histidine-rich glycoprotein
4186	1791	NM_133541	ww	general transcription factor III C 1	general transcription factor III C 1
4189	1558	NM_133554	e, pp	solute carrier family 17 vesicular glutamate transporter), member 1	solute carrier family 17 vesicular glutamate transporter), member 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4189	1559	NM_133554	e	solute carrier family 17 vesicular glutamate transporter), member 1	solute carrier family 17 vesicular glutamate transporter), member 1
4191	745	NM_133567	cc	centaurin, alpha 1	centaurin, alpha 1
4193	16993	NM_133583	a, d, m	N-myc downstream-regulated gene 2	N-myc downstream-regulated gene 2
4193	15029	NM_133583	oo	N-myc downstream-regulated gene 2	N-myc downstream-regulated gene 2
4194	1164	NM_133584	g	phosphodiesterase 5A, cGMP-specific	phosphodiesterase 5A, cGMP-specific
4195	4312	NM_133586	y, rr, ww	carboxylesterase 2 (intestine, liver)	carboxylesterase 2 (intestine, liver)
4196	19822	NM_133590	x	Ras-related GTP-binding protein Rab29	Ras-related GTP-binding protein Rab29
4197	1308	NM_133591	e	rabphilin 3A-like (without C2 domains)	rabphilin 3A-like (without C2 domains)
4202	25200	NM_133610	cc	potassium voltage-gated channel, subfamily H (eag-related), member 5	potassium voltage-gated channel, subfamily H (eag-related), member 5
4213	8692	NM_134387	e	diacetyl/L-xylulose reductase	diacetyl/L-xylulose reductase
4215	3074	NM_134399	kk	Mk1 protein	Mk1 protein
4217	23321	NM_134407	ss	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)
4224	1440	NM_134456	u	SH2-B PH domain containing signaling mediator 1	SH2-B PH domain containing signaling mediator 1
4225	1373	NM_134468	n	calcium/calmodulin-dependent protein kinase I	calcium/calmodulin-dependent protein kinase I
4229	61	NM_138510	u	20 alpha-hydroxysteroid dehydrogenase	20 alpha-hydroxysteroid dehydrogenase
4235	5283	NM_138535	xx	glutamate receptor interacting protein 2	glutamate receptor interacting protein 2
4237	16922	NM_138549	x	synaptic glycoprotein SC2	synaptic glycoprotein SC2
4237	25479	NM_138549	e, x	synaptic glycoprotein SC2	synaptic glycoprotein SC2
4247	891	NM_138863	x, bb	dithiolethione-inducible gene-1	dithiolethione-inducible gene-1
4254	5655	NM_138885	f, q, ff	golgi-associated protein GCP360	golgi-associated protein GCP360
4254	5656	NM_138885	d, q	golgi-associated protein GCP360	golgi-associated protein GCP360
4255	3015	NM_138895	h, w	polyubiquitin	polyubiquitin
4256	7636	NM_138896	s	roetin carrying the RING-H2 sequence motif	roetin carrying the RING-H2 sequence motif
4259	17115	NM_138905	l, m, General, kk	ER transmembrane protein Dri 42	ER transmembrane protein Dri 42
4261	21915	NM_138910	dd	defender against cell death 1	defender against cell death 1
4261	21916	NM_138910	ll	defender against cell death 1	defender against cell death 1
4269	734	NM_139094	d	CTD-binding SR-like protein rA8	CTD-binding SR-like protein rA8



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4270	17119	NM_139098	p	RNA helicase	RNA helicase
4277	15023	NM_139113	n, z, General, kk, pp	nuclear receptor subfamily 2, group F, member 6	nuclear receptor subfamily 2, group F, member 6
4278	15239	NM_139114	h, l, v, General	ribosomal protein L15	ribosomal protein L15
4281	22970	NM_139254	c, d, u	tubulin, beta 3	tubulin, beta 3
4285	1962	NM_139329	ii	CCA2 protein	CCA2 protein
4287	4949	NM_139338	s	Na <sup>+</sup> /Pi-cotransporter type Iic	Rattus norvegicus mRNA for Na <sup>+</sup> /Pi-cotransporter type Iic, complete cds
4290	15703	NM_144750	f, n, gg, hh, pp	Lysophospholipase	Rattus norvegicus mRNA for Lysophospholipase, complete cds
4291	11493	NM_144755	f, q, z, dd, oo, qq		ESTs, Weakly similar to A53621 AMP-activated protein kinase - rat [R.norvegicus]
4291	11494	NM_144755	f, l, q, v, z, General, dd, oo		ESTs, Weakly similar to A53621 AMP-activated protein kinase - rat [R.norvegicus]
4292	1623	NM_144757	s	Cys2/His2 zinc finger protein (rKr1)	Rattus norvegicus Cys2/His2 zinc finger protein (rKr1) mRNA, complete cds
4296	1949	NM_145092	f, l, ii, nn		Rattus norvegicus lamina associated polypeptide 1C (LAP1C) mRNA, complete cds, Rattus norvegicus lamina-associated polypeptide 1C (LAP1C) mRNA, complete cds
4298	1562	NM_145097	j, o, x, uu		Rattus norvegicus kallistatin mRNA, complete cds
4302	16343	NM_145724	uu		Rattus norvegicus zinc finger protein Y1 (RLZF-Y) mRNA, complete cds
4302	16345	NM_145724	j, uu		Rattus norvegicus zinc finger protein Y1 (RLZF-Y) mRNA, complete cds
4303	22975	NM_145778	jj		Rattus norvegicus mRNA for tubulin, complete cds
4338	18647	S69316	q, dd		ESTs, Weakly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus]
4345	1460	S76054	t, General, ll, ww		ESTs, Highly similar to K2C8_RAT Keratin, type II cytoskeletal 8 (Cytokeratin 8) (Cytokeratin endo A) [R.norvegicus]
4348	17626	S78556	qq		ESTs, Highly similar to I56581 dnaK-type molecular chaperone grp75 precursor - rat [R.norvegicus]
4354	110	U01145	l, General, kk		Rattus norvegicus clone 15 polymeric immunoglobulin receptor mRNA, 3'UTR microsatellite repeats
4356	347	U01914	s, tt	A kinase anchor protein 8	A kinase anchor protein 8
4357	111	U02506	b, General, kk, vv		Rattus norvegicus clone 15 polymeric immunoglobulin receptor mRNA, 3'UTR microsatellite repeats

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4358	2010	U05675	y, vv		Rattus norvegicus Sprague-Dawley fibrinogen B beta chain mRNA, complete cds
4370	399	U31668	ww, xx	E2F transcription factor 5	E2F transcription factor 5
4375	1357	U39572	mm	phosphatidylinositol 4-kinase	phosphatidylinositol 4-kinase
4376	18038	U39943	x		Rattus norvegicus cytochrome P450 pseudogene (CYP2J3P1) mRNA
4386	15516	U68544	b		Rattus norvegicus cyclophilin D mRNA, nuclear gene encoding mitochondrial protein, complete cds
4398	1153	U89280	h, n		Rattus norvegicus oxidative 17 beta hydroxysteroid dehydrogenase type 6 mRNA, complete cds
4400	9841	U94856	w	paraoxonase 1	paraoxonase 1
4400	9842	U94856	pp	paraoxonase 1	paraoxonase 1
4414	19584	X13905	General, mm		ESTs, Moderately similar to TVRTYP GTP-binding protein Rab1 - rat [R.norvegicus]
4440	18924	X58830	g	Bone morphogenetic protein 6	Bone morphogenetic protein 6
4446	4441	X62146	ee		ESTs, Highly similar to RL11_HUMAN 60S ribosomal protein L11 [R.norvegicus]
4447	13646	X62166	l, m, s, z, General, bb, cc, ii, qq, rr		ESTs, Highly similar to RL3_RAT 60S RIBOSOMAL PROTEIN L3 (L4) [R.norvegicus]
4448	15387	X62482	h, gg, hh		ESTs, Highly similar to R3RT25 ribosomal protein S25, cytosolic [validated] - rat [R.norvegicus]
4455	20844	X65228	y, ll		ESTs, Highly similar to R3RT3A ribosomal protein L23a, cytosolic [validated] - rat [R.norvegicus]
4464	23302	X78949	ff, xx	prolyl 4-hydroxylase alpha subunit	prolyl 4-hydroxylase alpha subunit
4473	18031	X94551	y	laminin, gamma 1	laminin, gamma 1
250	10157	AA819527	rr	HHs:amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	ESTs, Highly similar to S23094 beta-amyloid protein precursor - rat [R.norvegicus]
2352	10156	AI178039	bb	HHs:amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	ESTs, Highly similar to S23094 beta-amyloid protein precursor - rat [R.norvegicus]
4410	10154	X07648	m	HHs:amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	ESTs, Highly similar to S23094 beta-amyloid protein precursor - rat [R.norvegicus]
4424	20872	X51707	h	ribosomal protein S19	ESTs, Highly similar to R3RT19 ribosomal protein S19, cytosolic [validated] - rat [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
2218	18498	AI172452	m, ii, ll, uu		ESTs, Weakly similar to COXJ_RAT Cytochrome c oxidase polypeptide VIIa- liver/heart, mitochondrial precursor (Cytochrome c oxidase subunit VIIa-L) [R.norvegicus]	
2324	16175	AI177145	w		ESTs, Weakly similar to CAG7_RAT ALPHA- N-ACETYL GALACTOSAMINIDE ALPHA-2,6- SIALYLTRANSFERASE (ST6GALNACIII) (STY) [R.norvegicus]	
2398	12033	AI179066	ee		ESTs, Highly similar to SL52_RAT SODIUM/GLUCOSE COTRANSPORTER 2 (NA+)/GLUCOSE COTRANSPORTER 2) (LOW AFFINITY SODIUM-GLUCOSE COTRANSPORTER) [R.norvegicus]	
2556	20055	AI230762	rr		ESTs, Weakly similar to A53742 calponin, acidic - rat [R.norvegicus]	
2607	18497	AI232307	c		ESTs, Weakly similar to COXJ_RAT Cytochrome c oxidase polypeptide VIIa- liver/heart, mitochondrial precursor (Cytochrome c oxidase subunit VIIa-L) [R.norvegicus]	
3501	22726	NM_019383	r	ATP synthase subunit d	ATP synthase subunit d	
3608	2250	NM_022643	c, d, m, cc, kk, qq, vv		ESTs, Highly similar to 0506206A histone H2B [Rattus norvegicus] [R.norvegicus]	
3756	19161	NM_031111	j, ee	ribosomal protein S21	ribosomal protein S21	
4097	15468	NM_053982	h, gg, hh	ribosomal protein S15a	ribosomal protein S15a	
4097	19544	NM_053982	h, l, qq		EST, Moderately similar to JC2234 ribosomal protein S15a, cytosolic [validated] - rat [R.norvegicus]	
4299	9845	NM_145672	m		ESTs, Weakly similar to JN0572 neutrophil chemo-attractant Gro protein precursor - rat [R.norvegicus]	
4428	16716	X53054	c		Rat mRNA for RT1.D beta chain	
488	4339	AA875121	d	CCAAT binding factor of CBF- C/NFY-C	CCAAT binding factor of CBF-C/NFY-C	
1304	17353	AI008020	o	Malic enzyme 1, soluble	Malic enzyme 1, soluble	
1681	8330	AI059434	g	peroxisome proliferative activated receptor, gamma, coactivator 1	peroxisome proliferative activated receptor, gamma, coactivator 1	
1829	18838	AI101102	ee	Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator)	Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator)	
1890	11486	AI103162	j	Glycoprotein-4-beta- galactosyltransferase 2	Glycoprotein-4-beta-galactosyltransferase 2	
2112	6479	AI169690	h, l, q	Fibrinogen, gamma polypeptide	Fibrinogen, gamma polypeptide	
2455	21296	AI227641	j	Myosin, light polypeptide 2, alkali; ventricular, skeletal, slow	Myosin, light polypeptide 2, alkali; ventricular, skeletal, slow	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2552	13618	AI230724	kk, tt	SAC1 (supressor of actin mutations 1, homolog)-like (S. cerevisiae)	SAC1 (supressor of actin mutations 1, homolog)-like (S. cerevisiae)
2724	21414	AI235842	x	Superoxide dismutase 2, mitochondrial	Superoxide dismutase 2, mitochondrial
2961	790	L10073	g	5-hydroxytryptamine (serotonin) receptor 5B, ERO1-like (S. cerevisiae), Lysosomal associated membrane protein 1 (120 kDa), apoptotic protease activating factor 1, ceroid-lipofuscinosis, neuronal 2, cysteine-sulfinate decarboxylase	5-hydroxytryptamine (serotonin) receptor 5B
2969	16119	L16532	q	2',3'- Cyclic nucleotide 3'-phosphodiesterase	2',3'- Cyclic nucleotide 3'-phosphodiesterase
2992	21053	M15481	qq	Insulin-like growth factor I	Insulin-like growth factor I
3071	6477	NM_012559	dd	Fibrinogen, gamma polypeptide	Fibrinogen, gamma polypeptide
3073	619	NM_012565	h, r, kk	Glucokinase	Glucokinase
3076	20744	NM_012571	e, ll, oo	Glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase, cytosolic) see also D1Mgh12	Glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase, cytosolic) see also D1Mgh12
3087	18746	NM_012600	gg, hh	Malic enzyme 1, soluble	Malic enzyme 1, soluble
3090	9174	NM_012612	g	Natriuretic peptide precursor A, (pronatriodilatin, also Anf, Pnd)	Natriuretic peptide precursor A, (pronatriodilatin, also Anf, Pnd)
3102	16198	NM_012663	kk, tt	Vesicle-associated membrane protein (synaptobrevin 2)	Vesicle-associated membrane protein (synaptobrevin 2)
3102	16199	NM_012663	bb, kk	Vesicle-associated membrane protein (synaptobrevin 2)	Vesicle-associated membrane protein (synaptobrevin 2)
3102	16200	NM_012663	ii	Vesicle-associated membrane protein (synaptobrevin 2)	Vesicle-associated membrane protein (synaptobrevin 2)
3119	503	NM_012704	k	Rat kidney prostaglandin EP3 receptor	Rat kidney prostaglandin EP3 receptor
3121	24545	NM_012713	s	Protein kinase C beta	Protein kinase C beta
3131	1260	NM_012743	d	Hepatocyte nuclear factor 3 beta	Hepatocyte nuclear factor 3 beta
3154	11138	NM_012839	jj	Cytochrome C, expressed in somatic tissues	Cytochrome C, expressed in somatic tissues
3162	395	NM_012864	v	Matrix metalloproteinase 7 (matrilysin)	Matrix metalloproteinase 7 (matrilysin)
3163	4338	NM_012866	ll	CCAAT binding factor of CBF-C/NFY-C	CCAAT binding factor of CBF-C/NFY-C
3188	1720	NM_012943	cc	Distal-less homeobox	Distal-less homeobox
3205	19391	NM_012998	t, y, mm	Protein disulfide isomerase (Prolyl 4-hydroxylase, beta polypeptide)	Protein disulfide isomerase (Prolyl 4-hydroxylase, beta polypeptide)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3205	19392	NM_012998	j, gg, hh	Protein disulfide isomerase (Prolyl 4-hydroxylase, beta polypeptide)	Protein disulfide isomerase (Prolyl 4-hydroxylase, beta polypeptide)
3205	19393	NM_012998	gg, hh, ll	Protein disulfide isomerase (Prolyl 4-hydroxylase, beta polypeptide)	Protein disulfide isomerase (Prolyl 4-hydroxylase, beta polypeptide)
3209	23543	NM_013013	w, y	Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator)	Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator)
3209	23544	NM_013013	c	Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator)	Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator)
3211	208	NM_013025	vv	Macrophage inflammatory protein 1 alpha (Small inducible cytokine A3)	Macrophage inflammatory protein 1 alpha (Small inducible cytokine A3)
3233	1583	NM_013079	a, m, s, General, dd	Asparagine synthetase	Asparagine synthetase
3306	910	NM_017059	bb, ss	Bcl2-associated X protein	Bcl2-associated X protein
3306	911	NM_017059	ss	Bcl2-associated X protein	Bcl2-associated X protein
3306	912	NM_017059	qq	Bcl2-associated X protein	Bcl2-associated X protein
3336	20859	NM_017144	cc	Troponin I	Troponin I
3357	1541	NM_017193	ee	kynurenine aminotransferase II	kynurenine aminotransferase II
3364	13938	NM_017212	g	microtubule-associated protein tau	microtubule-associated protein tau
3398	12347	NM_017290	jj	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
3398	12348	NM_017290	ff, pp	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
3398	12349	NM_017290	l	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
3459	5661	NM_019241	u	gap junction membrane channel protein beta 5	gap junction membrane channel protein beta 5
3492	1070	NM_019368	f, q, z	blocked early in transport 1 homolog (S.cerevisiae) - like	blocked early in transport 1 homolog (S.cerevisiae) - like
3497	15680	NM_019376	ii, ll	14-3-3 protein gamma-subtype	14-3-3 protein gamma-subtype
3508	15911	NM_019907	ww	postsynaptic protein Cript	postsynaptic protein Cript
3516	15335	NM_021264	General, kk	ribosomal protein L35a	ribosomal protein L35a
3540	23151	NM_022005	e	FXYD domain-containing ion transport regulator 6	FXYD domain-containing ion transport regulator 6
3585	25681	NM_022519	r	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
3585	4212	NM_022519	e	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3585	4213	NM_022519	ee	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
3590	5666	NM_022529	r	mitochondrial ribosomal protein L23	mitochondrial ribosomal protein L23
3626	58	NM_022715	nn	major vault protein	major vault protein
3636	18098	NM_022947	oo	suppressor of K <sup>+</sup> transport defect 3	suppressor of K <sup>+</sup> transport defect 3
3642	15755	NM_022960	k	neutral solute channel aquaporin 9	neutral solute channel aquaporin 9
3703	248	NM_030998	gg, hh	anti-Mullerian hormone type 2 receptor	anti-Mullerian hormone type 2 receptor
3720	15805	NM_031028	g	gamma-aminobutyric acid (GABA) B receptor, 1	gamma-aminobutyric acid (GABA) B receptor, 1
3720	15807	NM_031028	s	gamma-aminobutyric acid (GABA) B receptor, 1	gamma-aminobutyric acid (GABA) B receptor, 1
3799	24710	NM_031512	vv	Interleukin 1 beta	Interleukin 1 beta
3807	4010	NM_031543	e, r	Cytochrome P450, subfamily 2e1 (ethanol-inducible)	Cytochrome P450, subfamily 2e1 (ethanol-inducible)
3807	4011	NM_031543	j, w	Cytochrome P450, subfamily 2e1 (ethanol-inducible)	Cytochrome P450, subfamily 2e1 (ethanol-inducible)
3807	4012	NM_031543	e, rr	Cytochrome P450, subfamily 2e1 (ethanol-inducible)	Cytochrome P450, subfamily 2e1 (ethanol-inducible)
3818	1920	NM_031576	c, cc	P450 (cytochrome) oxidoreductase	P450 (cytochrome) oxidoreductase
3819	939	NM_031577	z	growth hormone releasing hormone	growth hormone releasing hormone
3827	14542	NM_031596	u	squamous cell carcinoma antigen recognized by T-cells	squamous cell carcinoma antigen recognized by T-cells
3827	14543	NM_031596	jj	squamous cell carcinoma antigen recognized by T-cells	squamous cell carcinoma antigen recognized by T-cells
3843	906	NM_031633	ss	forkhead box M1	forkhead box M1
3848	9427	NM_031656	c, kk	syntaxin-like protein 3135	syntaxin-like protein 3135
3848	9428	NM_031656	p	syntaxin-like protein 3135	syntaxin-like protein 3135
3850	20467	NM_031662	r, ee	calcium/calmodulin-dependent protein kinase kinase 1, alpha	calcium/calmodulin-dependent protein kinase kinase 1, alpha
3852	23656	NM_031673	bb	calpain 10	calpain 10
3936	17933	NM_032615	m, o, z, General, dd, rr	membrane interacting protein of RGS16	membrane interacting protein of RGS16
3936	17934	NM_032615	o, z, General, nn	membrane interacting protein of RGS16	membrane interacting protein of RGS16
3936	17935	NM_032615	o, s	membrane interacting protein of RGS16	membrane interacting protein of RGS16
3991	14380	NM_053536	tt	Kruppel-like factor 15 (kidney)	Kruppel-like factor 15 (kidney)
4022	13005	NM_053623	a	fatty acid-Coenzyme A ligase, long chain 4	fatty acid-Coenzyme A ligase, long chain 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4052	3677	NM_053798	x	SAC1 (supressor of actin mutations 1, homolog)-like (S. cerevisiae)	SAC1 (supressor of actin mutations 1, homolog)-like (S. cerevisiae)
4058	16311	NM_053818	j	glycine transporter 1	glycine transporter 1
4066	20868	NM_053843	y, xx	Fc receptor, IgG, low affinity III	Fc receptor, IgG, low affinity III
4137	132	NM_080782	ll, tt	cyclin-dependent kinase inhibitor 1A (P21)	cyclin-dependent kinase inhibitor 1A (P21)
4137	133	NM_080782	p, ll, ss	cyclin-dependent kinase inhibitor 1A (P21)	cyclin-dependent kinase inhibitor 1A (P21)
4164	17560	NM_133283	e, t, mm	eukaryotic translation elongation factor 2, mitogen activated protein kinase kinase 2	mitogen activated protein kinase kinase 2
4164	17564	NM_133283	ff	mitogen activated protein kinase kinase 2	mitogen activated protein kinase kinase 2
4164	21848	NM_133283	v, y	mitogen activated protein kinase kinase 2	mitogen activated protein kinase kinase 2
4164	21849	NM_133283	ff	mitogen activated protein kinase kinase 2	mitogen activated protein kinase kinase 2
4176	10195	NM_133383	w	retinoid-inducible serine carboxypetidase	retinoid-inducible serine carboxypetidase
4324	1937	R46934	k	amelogenin	amelogenin
4406	21054	X06107	g, v	Insulin-like growth factor I	Insulin-like growth factor I
60	2040	AA799700	w	HMm:selenophosphate synthetase 2	ESTs, Highly similar to SPS2_MOUSE Selenide,water dikinase 2 (Selenophosphate synthetase 2) (Selenium donor protein 2) [M.musculus]
209	12160	AA818412	o, qq	cytochrome P450, 2b19	cytochrome P450, 2b19
495	10936	AA875146	f	HMm:ubiquitin conjugating enzyme 6	ESTs, Highly similar to ubiquitin conjugating enzyme 6; Ubc6p homolog [Mus musculus] [M.musculus]
590	2107	AA892006	e	HMm:ATPase, H+ transporting, lysosomal 70kD, V1 subunit A, isoform 1	ESTs, Highly similar to VAA1_MOUSE Vacuolar ATP synthase catalytic subunit A, ubiquitous isoform (V-ATPase A subunit 1) (Vacuolar proton pump alpha subunit 1) (V-ATPase 69 kDa subunit 1) [M.musculus]
815	3959	AA901338	z	HMm:eukaryotic translation initiation factor 2, subunit 2 (beta, 38kDa)	ESTs, Highly similar to eukaryotic translation initiation factor 2, subunit 2 (beta, 38kDa) [Mus musculus] [M.musculus]
1096	2702	AA957307	l, l, p, z, General, dd, ii, pp, qq, rr	HMm:seryl-aminoacyl-tRNA synthetase 1	ESTs, Highly similar to A41019 serine-tRNA ligase (EC 6.1.1.11) - mouse (fragment) [M.musculus]
1517	2108	AI029960	ee	HMm:ATPase, H+ transporting, lysosomal 70kD, V1 subunit A, isoform 1	ESTs, Highly similar to VAA1_MOUSE Vacuolar ATP synthase catalytic subunit A, ubiquitous isoform (V-ATPase A subunit 1) (Vacuolar proton pump alpha subunit 1) (V-ATPase 69 kDa subunit 1) [M.musculus]

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2089	17914	AI169159	ll	HMm:ATPase, H <sup>+</sup> transporting, lysosomal 31kDa, V1 subunit E	ESTs, Moderately similar to VATE_MOUSE Vacuolar ATP synthase subunit E (V-ATPase E subunit) (Vacuolar proton pump E subunit) (V-ATPase 31 kDa subunit) (P31) [M.musculus]
2312	15588	AI176916	dd	HMm:phosphomannomutase 1	ESTs, Highly similar to PMM1_MOUSE Phosphomannomutase 1 (PMM 1) [M.musculus]
2948	12156	K00996	o	cytochrome P450, 2b19	cytochrome P450, 2b19
2950	12157	K01721	o	cytochrome P450, 2b19	cytochrome P450, 2b19
2968	23897	L15011	g	cortexin	cortexin
3178	6107	NM_012915	b, General, gg, hh, uu	ATPase inhibitor (rat mitochondrial IF1 protein)	ATPase inhibitor (rat mitochondrial IF1 protein)
3178	6108	NM_012915	b, General, uu	ATPase inhibitor (rat mitochondrial IF1 protein)	ATPase inhibitor (rat mitochondrial IF1 protein)
3178	6109	NM_012915	n	ATPase inhibitor (rat mitochondrial IF1 protein)	ATPase inhibitor (rat mitochondrial IF1 protein)
3196	956	NM_012976	General	Lectin, galactose binding, soluble 5 (Galectin-5), Lectin, galactose binding, soluble 9 (Galectin-9)	Lectin, galactose binding, soluble 9 (Galectin-9)
3197	958	NM_012977	b, tt	Lectin, galactose binding, soluble 9 (Galectin-9)	Lectin, galactose binding, soluble 9 (Galectin-9)
3541	20309	NM_022175	gg, hh	Homeobox gene Pem	Homeobox gene Pem
3655	504	NM_024136	x	epididymal retinoic acid-binding protein	epididymal retinoic acid-binding protein
3796	635	NM_031509	vv	Glutathione-S-transferase, alpha type (Ya)	Glutathione-S-transferase, alpha type (Ya)
4312	683	NM_147206	ii	HMm:cytochrome P450, steroid inducible 3a13	Rattus norvegicus cytochrome P450 3A9 mRNA, complete cds
5	4439	AA685175	h, m, s, General		ESTs, Moderately similar to ribosome binding protein 1 isoform mRRp61 [Mus musculus] [M.musculus]
14	19222	AA799279	d, f, l, General, pp		ESTs, Highly similar to mitochondrial carrier homolog 2 [Mus musculus] [M.musculus]
37	15560	AA799538	z		ESTs, Highly similar to SFR2_MOUSE Splicing factor, arginine/serine-rich 2 (Splicing factor SC35) (SC-35) (Splicing component, 35 kDa) (PR264 protein) [M.musculus]
85	21006	AA799861	rr		ESTs, Highly similar to IRF7_MOUSE Interferon regulatory factor 7 (IRF-7) [M.musculus]
85	21007	AA799861	g		ESTs, Highly similar to IRF7_MOUSE Interferon regulatory factor 7 (IRF-7) [M.musculus]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
101	15394	AA800039	z, ll		ESTs, Weakly similar to FAF1_MOUSE FAS-associated factor 1 (FAF1 protein) [M.musculus]
121	24228	AA800318	oo		ESTs, Moderately similar to IC1_MOUSE Plasma protease C1 inhibitor precursor (C1 Inh) (C1Inh) [M.musculus]
147	17648	AA800735	l		ESTs, Weakly similar to VIL1_MOUSE Villin 1 [M.musculus]
147	17649	AA800735	w, gg, hh		ESTs, Weakly similar to VIL1_MOUSE Villin 1 [M.musculus]
174	2425	AA817722	mm		ESTs, Highly similar to CTN1_MOUSE Alpha-1 catenin (102 kDa cadherin-associated protein) (CAP102) (Alpha E-catenin) [M.musculus]
186	11215	AA817921	xx		ESTs, Highly similar to ubiquitin-like 5 [Mus musculus] [M.musculus]
191	10623	AA817987	c, f, n, v	Sulfotransferase hydroxysteroid gene 2	Sulfotransferase hydroxysteroid gene 2
204	6522	AA818261	c		ESTs, Moderately similar to A47318 RNA-binding protein Raly - mouse [M.musculus]
222	18868	AA818759	dd		ESTs, Moderately similar to S12207 hypothetical protein (B2 element) - mouse [M.musculus]
233	6132	AA819055	v, uu		ESTs, Weakly similar to G35070 apolipoprotein H-related protein 13G1 - mouse [M.musculus]
249	9987	AA819502	c		ESTs, Weakly similar to ELL_MOUSE RNA POLYMERASE II ELONGATION FACTOR ELL (ELEVEN-NINETEEN LYSINE-RICH LEUKEMIA PROTEIN) [M.musculus]
258	6297	AA819681	General, uu		ESTs, Highly similar to RIKEN cDNA 1200014P03 [Mus musculus] [M.musculus]
283	16128	AA848807	l, r, nn		ESTs, Highly similar to RIKEN cDNA 2410017118 [Mus musculus] [M.musculus]
307	12129	AA849966	n		ESTs, Moderately similar to Mpv17 transgene, kidney disease mutant-like [Mus musculus] [M.musculus]
319	19621	AA850634	v		ESTs, Moderately similar to S12207 hypothetical protein (B2 element) - mouse [M.musculus]
330	8872	AA851050	v, qq	glutathione reductase	glutathione reductase
334	15561	AA851202	ll		ESTs, Highly similar to SFR2_MOUSE Splicing factor, arginine/serine-rich 2 (Splicing factor SC35) (SC-35) (Splicing component, 35 kDa) (PR264 protein) [M.musculus]
337	17699	AA851233	gg, hh		ESTs, Highly similar to RIKEN cDNA 4930548G07 [Mus musculus] [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
371	1801	AA858636	r, rr		ESTs, Highly similar to mini chromosome maintenance deficient 7 (S. cerevisiae) [Mus musculus] [M.musculus]
386	18765	AA859019	a		ESTs, Weakly similar to G35070 apolipoprotein H-related protein 13G1 - mouse [M.musculus]
398	6464	AA859401	ll		ESTs, Highly similar to JC7321 N-acetylneuraminic acid 9-phosphate synthase (EC 4.1.3.-) - mouse [M.musculus]
419	22670	AA859750	y		ESTs, Weakly similar to ERF_MOUSE ETS-domain transcription factor ERF [M.musculus]
421	14213	AA859827	bb, dd, jj, oo, pp		ESTs, Moderately similar to URK1_MOUSE URIDINE KINASE (URIDINE MONOPHOSPHOKINASE) [M.musculus]
432	19377	AA859971	l		ESTs, Highly similar to RIKEN cDNA 0610010112 [Mus musculus] [M.musculus]
459	9391	AA866477	d		ESTs, Moderately similar to COXM_MOUSE Cytochrome c oxidase polypeptide VIIb, mitochondrial precursor [M.musculus]
476	16241	AA875019	pp		ESTs, Highly similar to ZAP3_MOUSE Nuclear protein ZAP3 [M.musculus]
487	16416	AA875098	j, q, dd		ESTs, Highly similar to RIKEN cDNA 1110002023 [Mus musculus] [M.musculus]
509	18864	AA875470	u		ESTs, Highly similar to COP9 (constitutive photomorphogenic) homolog, subunit 7a (Arabidopsis thaliana); DNA segment, Chr 6, ERATO D01 35, expressed; COP9 complex S7a; COP9 (constitutive photomorphogenic), subunit 7a (Arabidopsis) [Mus musculus] [M.musculus]
515	15558	AA875537	tt		ESTs, Highly similar to SFR2_MOUSE Splicing factor, arginine/serine-rich 2 (Splicing factor SC35) (SC-35) (Splicing component, 35 kDa) (PR264 protein) [M.musculus]
524	15688	AA875664	x		ESTs, Highly similar to mitochondria associated granulocyte macrophage CSF signaling molecule [Mus musculus] [M.musculus]
526	17057	AA891049	General		ESTs, Highly similar to PFD2_MOUSE Prefoldin subunit 2 [M.musculus]
531	24814	AA891209	m		ESTs, Highly similar to interleukin 25; lymphocyte antigen 6 complex, locus E ligand [Mus musculus] [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
574	16602	AA891864	t, mm		ESTs, Highly similar to RIKEN cDNA 2900054O13 gene; nuclear ATP/GTP-binding protein; Purkinje cell degeneration [Mus musculus] [M.musculus]
594	6362	AA892053	q		ESTs, Highly similar to T42204 chromatin structural protein homolog Sup15hp - mouse [M.musculus]
628	18150	AA892422	e		ESTs, Moderately similar to RIKEN cDNA 2410001P07; RIKEN cDNA 2410001P07 gene [Mus musculus] [M.musculus]
633	1522	AA892486	e, ii, rr, uu		ESTs, Weakly similar to A36690 sucrose alpha-glucosidase (EC 3.2.1.48) - rat (fragment) [R.norvegicus]
648	18274	AA892572	bb		ESTs, Highly similar to RIKEN cDNA 1110001J03 [Mus musculus] [M.musculus]
666	20359	AA892817	f, s		EST, Weakly similar to S12207 hypothetical protein (B2 element) - mouse [M.musculus]
684	11189	AA892960	ee		ESTs, Highly similar to RIKEN cDNA 1200011I18 [Mus musculus] [M.musculus]
696	19745	AA893199	t		ESTs, Highly similar to RIKEN cDNA 1500004D14 [Mus musculus] [M.musculus]
701	548	AA893235	c, ww, xx		ESTs, Highly similar to G0S2_MOUSE Putative lymphocyte G0/G1 switch protein 2 (G0S2-like protein) [M.musculus]
720	17698	AA893596	ww		ESTs, Highly similar to RIKEN cDNA 4930548G07 [Mus musculus] [M.musculus]
745	3217	AA894101	jj		ESTs, Moderately similar to PNAD_MOUSE PROTEIN N-TERMINAL ASPARAGINE AMIDOHYDROLASE (PROTEIN NH2-TERMINAL ASPARAGINE DEAMIDASE) (NTN-AMIDASE) (PNAD) (PROTEIN NH2-TERMINAL ASPARAGINE AMIDOHYDROLASE) (PNAA) [M.musculus]
764	3910	AA894345	b, k, l, cc		ESTs, Weakly similar to 2021425A MAT1 gene [Mus musculus] [M.musculus]
765	18094	AA899051	rr	SH-PTP2 protein tyrosine phosphatase, non-receptor type 11	SH-PTP2 protein tyrosine phosphatase, non-receptor type 11
807	22666	AA900974	r, y, kk		ESTs, Highly similar to p34SEI-1; PHD zinc finger- and bromodomain-interacting protein 1 [Mus musculus] [M.musculus]
840	18434	AA924413	kk, tt		ESTs, Moderately similar to hypothetical protein MNCb-0169 [Mus musculus] [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
843	3631	AA924460	m		ESTs, Weakly similar to PMC1_MOUSE Polymyositis/scleroderma autoantigen 1 (Autoantigen PM/Scl 1) (Polymyositis/scleroderma autoantigen 75 kDa) (PM/Scl-75) (P75 polymyositis-scleroderma overlap syndrome associated autoantigen) [M.musculus]
864	5073	AA925061	d		ESTs, Moderately similar to S20710 hypothetical protein, 16K - mouse [M.musculus]
916	16909	AA942704	bb		ESTs, Moderately similar to SUR2_MOUSE Surfeit locus protein 2 (Surf-2) [M.musculus]
918	6039	AA942716	nn		ESTs, Highly similar to hematological and neurological expressed sequence 1 [Mus musculus] [M.musculus]
976	21581	AA944828	ff		ESTs, Highly similar to RIKEN cDNA 2610524G07 [Mus musculus] [M.musculus]
984	22667	AA945069	r		ESTs, Highly similar to p34SEI-1; PHD zinc finger- and bromodomain-interacting protein 1 [Mus musculus] [M.musculus]
1026	12321	AA946166	d		ESTs, Highly similar to RIKEN cDNA 2410003C20 [Mus musculus] [M.musculus]
1057	15329	AA955427	k		ESTs, Highly similar to LMA1_MOUSE Laminin alpha-1 chain precursor (Laminin A chain) [M.musculus]
1060	9984	AA955536	c		ESTs, Weakly similar to ELL_MOUSE RNA POLYMERASE II ELONGATION FACTOR ELL (ELEVEN-NINETEEN LYSINE-RICH LEUKEMIA PROTEIN) [M.musculus]
1060	9985	AA955536	c		ESTs, Weakly similar to ELL_MOUSE RNA POLYMERASE II ELONGATION FACTOR ELL (ELEVEN-NINETEEN LYSINE-RICH LEUKEMIA PROTEIN) [M.musculus]
1066	23662	AA955640	jj		ESTs, Highly similar to RIKEN cDNA 2610002M06 [Mus musculus] [M.musculus]
1088	23805	AA956558	jj		ESTs, Moderately similar to MTG8_MOUSE MTG8 protein [M.musculus]
1123	16603	AA964059	mm		ESTs, Highly similar to RIKEN cDNA 2900054O13 gene; nuclear ATP/GTP-binding protein; Purkinje cell degeneration [Mus musculus] [M.musculus]
1129	12166	AA964426	e		ESTs, Moderately similar to RIKEN cDNA 2810433K01 [Mus musculus] [M.musculus]
1155	21008	AA965186	ll		ESTs, Highly similar to IRF7_MOUSE Interferon regulatory factor 7 (IRF-7) [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
1177	2988	AA997030	rr		ESTs, Moderately similar to guanine nucleotide exchange factor (RCC1 related) [Mus musculus] [M.musculus]	
1193	3269	AA997800	k		ESTs, Moderately similar to T30249 cell proliferation antigen Ki-67 - mouse [M.musculus]	
1203	3357	AA998078	v		ESTs, Moderately similar to RalBP1 associated Eps domain containing protein [Mus musculus] [M.musculus]	
1233	3069	AA998910	ss		ESTs, Highly similar to endoplasmic reticulum chaperone SIL1 homolog (S. cerevisiae) [Mus musculus] [M.musculus]	
1265	23044	AF034218	s, kk, pp.	hyaluronidase 2	hyaluronidase 2	
1298	4740	AI007847	k		ESTs, Weakly similar to S26689 hypothetical protein hc1 - mouse (fragment) [M.musculus]	
1340	3464	AI009589	ww		ESTs, Highly similar to RIKEN cDNA 4921524J17 [Mus musculus] [M.musculus]	
1345	994	AI009693	bb		ESTs, Highly similar to RIKEN cDNA 2310050K10 [Mus musculus] [M.musculus]	
1362	6874	AI010057	g		EST, Weakly similar to A26621 retrovirus-related endonuclease (EC 3.1.-.-) - mouse (fragment) [M.musculus]	
1378	6943	AI010637	ss		ESTs, Moderately similar to peptide N-glycanase; peptide:N-glycanase [Mus musculus] [M.musculus]	
1510	2340	AI029499	s, oo		ESTs, Weakly similar to JC4524 aldehyde dehydrogenase (NAD(P)+) (EC 1.2.1.5) - rat [R.norvegicus]	
1511	22469	AI029506	dd		ESTs, Moderately similar to COG2_MOUSE Coatomer gamma-2 subunit (Gamma-2 coat protein) (Gamma-2 COP) [M.musculus]	
1561	7916	AI043855	s, t	sterol-C5-desaturase (fungal ERG3, delta-5-desaturase)-like	sterol-C5-desaturase (fungal ERG3, delta-5-desaturase)-like	
1569	9829	AI044063	x		ESTs, Weakly similar to carcinoma related gene [Mus musculus] [M.musculus]	
1589	24174	AI044826	gg, hh		ESTs, Highly similar to CC45_MOUSE CDC45-related protein (PORC-PI-1) [M.musculus]	
1610	19782	AI045333	r		ESTs, Moderately similar to tumor necrosis factor induced protein 1 [Mus musculus] [M.musculus]	
1635	23712	AI045827	h		ESTs, Weakly similar to T00043 BH-protocadherin-a - mouse [M.musculus]	
1652	10084	AI058674	s		ESTs, Highly similar to MTR3_MOUSE Myotubularin-related protein 3 [M.musculus]	

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1682	14518	AI059477	gg, hh		ESTs, Moderately similar to POL3_MOUSE Retrovirus-related POL polypeptide (Endonuclease) [M.musculus]
1726	11821	AI070350	mm		ESTs, Weakly similar to JC4667 TB2/DP1 protein homolog - mouse [M.musculus]
1747	9079	AI071251	b, x		ESTs, Moderately similar to A57050 K-glypican precursor - mouse [M.musculus]
1757	16788	AI071557	ii	Orthodenticle (Drosophila) homolog 1	Orthodenticle (Drosophila) homolog 1
1765	6521	AI071688	c, w		ESTs, Moderately similar to A47318 RNA-binding protein Raly - mouse [M.musculus]
1788	9162	AI072392	jj		ESTs, Highly similar to C2MS classical-complement-pathway C3/C5 convertase (EC 3.4.21.43) C2 component precursor - mouse [M.musculus]
1826	23124	AI100785	y, nn		ESTs, Highly similar to germ cell-less homolog (Drosophila) [Mus musculus] [M.musculus]
1874	19379	AI102711	d, j		ESTs, Highly similar to RIKEN cDNA 0610010I12 [Mus musculus] [M.musculus]
1936	7223	AI104373	x		ESTs, Highly similar to RIKEN cDNA 2810428I15 [Mus musculus] [M.musculus]
1942	5084	AI104587	z		ESTs, Moderately similar to RIKEN cDNA 1810008A14 [Mus musculus] [M.musculus]
1977	2539	AI111960	y		ESTs, Weakly similar to FKB5_MOUSE 51 kDa FK506-binding protein (FKBP51) (Peptidyl-prolyl cis-trans isomerase) (PPIase) (Rotamase) [M.musculus]
1997	11180	AI113003	oo, vv		ESTs, Highly similar to gene rich cluster, C9 gene [Mus musculus] [M.musculus]
2014	16187	AI136838	gg, hh		ESTs, Highly similar to A55053 endothelial monocyte-activating protein II precursor - mouse [M.musculus]
2015	23851	AI136862	v		ESTs, Highly similar to carcinoma related gene [Mus musculus] [M.musculus]
2027	13129	AI137413	p		ESTs, Weakly similar to T14318 ubiquitin-protein ligase E3-alpha - mouse [M.musculus]
2034	1556	AI137790	xx		R.norvegicus mRNA from Leydig cell hypercalcemic tumour H-500
2041	22987	AI138061	s		ESTs, Moderately similar to JC4761 recombination activating gene 1 inducing protein - mouse [M.musculus]
2052	13190	AI144981	c		ESTs, Weakly similar to Fas-activated serine/threonine kinase [Mus musculus] [M.musculus]
2053	23106	AI145081	ww		ESTs, Highly similar to S56766 replication licensing factor MCM4 - mouse [M.musculus]

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2068	18522	AI145870	t, ff		ESTs, Moderately similar to RIKEN cDNA 1110025H10 [Mus musculus] [M.musculus]
2070	13401	AI146008	pp		ESTs, Moderately similar to S12207 hypothetical protein (B2 element) - mouse [M.musculus]
2075	14519	AI168947	tt		ESTs, Moderately similar to POL3_MOUSE Retrovirus-related POL polyprotein (Endonuclease) [M.musculus]
2083	5683	AI169034	p	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 20, 103kD	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 20, 103kD
2087	6392	AI169154	q		ESTs, Weakly similar to SSXT_MOUSE SSXT protein (SYT protein) (Synovial sarcoma associated Ss18-alpha) [M.musculus]
2093	2607	AI169211	c		ESTs, Highly similar to A47318 RNA-binding protein Raly - mouse [M.musculus]
2095	806	AI169231	r		ESTs, Highly similar to G33_RAT GENE 33 POLYPEPTIDE [R.norvegicus]
2110	15665	AI169611	l		ESTs, Moderately similar to steroid receptor RNA activator 1 [Mus musculus] [M.musculus]
2113	20466	AI169735	h		Rat cytochrome P450IIB3 (P450IIB subfamily) mRNA, complete cds
2115	804	AI169756	n, r, ee		ESTs, Highly similar to G33_RAT GENE 33 POLYPEPTIDE [R.norvegicus]
2125	4368	AI170265	xx		ESTs, Highly similar to RIKEN cDNA 1700006C06 [Mus musculus] [M.musculus]
2176	21698	AI171574	tt		ESTs, Highly similar to RNA and export factor binding protein 1; Tora enhancer-binding factor interacting protein 1 [Mus musculus] [M.musculus]
2187	10087	AI171803	w, General, uu	methylmalonate semialdehyde dehydrogenase gene	methylmalonate semialdehyde dehydrogenase gene
2191	22239	AI171982	qq		ESTs, Moderately similar to I48672 p8 MTCP-1 - mouse [M.musculus]
2201	5080	AI172106	qq		ESTs, Highly similar to cDNA sequence AB028863; Mmrp19 [Mus musculus] [M.musculus]
2214	15382	AI172302	rr		ESTs, Weakly similar to S43056 hypothetical protein - mouse [M.musculus]
2223	5044	AI172572	m		ESTs, Moderately similar to expressed sequence tag mouse EST 12 [Mus musculus] [M.musculus]
2254	22451	AI175992	d, t		ESTs, Highly similar to beta-catenin-interacting protein ICAT [Mus musculus] [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2329	21279	AI177356	bb		ESTs, Highly similar to mitochondrial ribosomal protein 64 [Mus musculus] [M.musculus]
2332	18095	AI177482	rr	SH-PTP2 protein tyrosine phosphatase, non-receptor type 11	SH-PTP2 protein tyrosine phosphatase, non-receptor type 11
2344	22249	AI177809	l	zyxin	zyxin
2412	12011	AI179380	oo		ESTs, Highly similar to open reading frame 12 [Mus musculus] [M.musculus]
2413	19783	AI179388	y		ESTs, Highly similar to RIKEN cDNA 0610040D20 [Mus musculus] [M.musculus]
2422	23515	AI179498	l		ESTs, Highly similar to SEC23B (S. cerevisiae) [Mus musculus] [M.musculus]
2430	17865	AI179636	ss		ESTs, Highly similar to RIKEN cDNA 0610009B22 [Mus musculus] [M.musculus]
2448	17089	AI180281	h		ESTs, Moderately similar to JC4978 oxidative stress protein A170 - mouse [M.musculus]
2485	21898	AI228595	ss		ESTs, Moderately similar to CNO7_MOUSE CCR4-NOT transcription complex, subunit 7 (CCR4-associated factor 1) (CAF1) [M.musculus]
2494	15873	AI228798	pp		ESTs, Weakly similar to I52657 seizure-related protein SEZ-6 precursor - mouse [M.musculus]
2497	23824	AI229059	h, q, x, dd		ESTs, Moderately similar to retinoic acid induced 12; Clone 13u [Mus musculus] [M.musculus]
2499	5143	AI229087	s		ESTs, Highly similar to TPS1_MOUSE Protein-tyrosine sulfotransferase 1 (Tyrosylprotein sulfotransferase-1) (TPST-1) [M.musculus]
2501	19063	AI229166	nn		ESTs, Highly similar to mitochondrial ribosomal protein S14; 1810032L21Rik [Mus musculus] [M.musculus]
2514	21237	AI229430	cc		Rattus norvegicus Tclone4 mRNA
2534	18088	AI230199	xx		ESTs, Weakly similar to POL3_MOUSE Retrovirus-related POL polyprotein (Endonuclease) [M.musculus]
2550	14388	AI230702	q, bb		ESTs, Highly similar to hematological and neurological expressed sequence 1 [Mus musculus] [M.musculus]
2559	19765	AI230945	j, bb		ESTs, Highly similar to synbindin; syndecan binding protein 2 [Mus musculus] [M.musculus]
2585	2339	AI231798	x		ESTs, Highly similar to T-complex expressed gene 2 [Mus musculus] [M.musculus]



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2614	14521	AI232350	m		ESTs, Moderately similar to POL3_MOUSE Retrovirus-related POL polyprotein (Endonuclease) [M.musculus]	
2629	21664	AI232734	kk		ESTs, Highly similar to DD15_MOUSE Putative pre-mRNA splicing factor RNA helicase (DEAH box protein 15) [M.musculus]	
2675	15085	AI233829	x, ff, ii	P11 protein	P11 protein	
2710	22805	AI235403	v		ESTs, Highly similar to adaptor-related protein complex AP-3, delta subunit [Mus musculus] [M.musculus]	
2721	15200	AI235736	e		ESTs, Moderately similar to CD34_MOUSE Hematopoietic progenitor cell antigen CD34 precursor [M.musculus]	
2734	15467	AI236106	jj		ESTs, Moderately similar to S15785 heat-stable antigen-related hypothetical protein HSA-C - mouse [M.musculus]	
2756	20992	AI236719	k		ESTs, Highly similar to N-acetylglucosamine kinase; GlcNAc kinase [Mus musculus] [M.musculus]	
2758	16609	AI236748	pp		ESTs, Moderately similar to CENB_MOUSE MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B) [M.musculus]	
2776	16063	AI237314	q		ESTs, Highly similar to zinc finger like protein 1 [Mus musculus] [M.musculus]	
2802	20000	AI638989	j		ESTs, Moderately similar to T14273 zinc finger protein 106 - mouse [M.musculus]	
2815	10071	AI639058	y, xx		ESTs, Highly similar to Nedd4 WW binding# protein 4; Nedd4 WW-binding protein 4 [Mus musculus] [M.musculus]	
2819	5545	AI639117	h, cc, ii, vv		ESTs, Highly similar to CFAB_MOUSE Complement factor B precursor (C3/C5 convertase) [M.musculus]	
2912	11358	H31610	oo, pp		ESTs, Highly similar to JW0059 mtprp protein - mouse [M.musculus]	
2936	18281	H33459	ss		ESTs, Highly similar to SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1; integrase interactor 1 [Mus musculus] [M.musculus]	
2944	16256	J02861	dd, rr	cytochrome P450 2c13, cytochrome P450, 2c38	cytochrome P450 2c13, cytochrome P450, 2c38	
2951	17270	K02111	jj		Rat embryonic myosin heavy chain gene, partial 5' region, mRNA	
2996	20464	M20406	l, v, vv		Rat cytochrome P450IIB3 (P450IIB subfamily) mRNA, complete cds	

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3012	16305	M33312	o, General	Cytochrome P450 IIA1 (hepatic steroid hydroxylase IIA1) gene	Cytochrome P450 IIA1 (hepatic steroid hydroxylase IIA1) gene
3033	16255	M82855	g, dd	cytochrome P450 2c13, cytochrome P450, 2c38	cytochrome P450 2c13, cytochrome P450, 2c38
3070	16895	NM_012558	a, cc, gg, hh, ss, uu	Fructose-1,6- biphosphatase	Fructose-1,6- biphosphatase
3107	24589	NM_012674	d, kk	Serine protease inhibitor, kanzal type 1/ Trypsin inhibitor-like protein, pancreatic	Serine protease inhibitor, kanzal type 1/ Trypsin inhibitor-like protein, pancreatic
3113	16306	NM_012692	uu	Cytochrome P450 IIA1 (hepatic steroid hydroxylase IIA1) gene, Cytochrome P450 IIA2	Cytochrome P450 IIA1 (hepatic steroid hydroxylase IIA1) gene, Cytochrome P450 IIA2
3114	24707	NM_012693	c, r, s	Cytochrome P450 IIA2	Cytochrome P450 IIA2
3115	10622	NM_012695	f, n	Sulfotransferase hydroxysteroid gene 2	Sulfotransferase hydroxysteroid gene 2
3115	10624	NM_012695	n, xx	Sulfotransferase hydroxysteroid gene 2	Sulfotransferase hydroxysteroid gene 2
3115	10625	NM_012695	k, n, ii	Sulfotransferase hydroxysteroid gene 2	Sulfotransferase hydroxysteroid gene 2
3115	10626	NM_012695	f	Sulfotransferase hydroxysteroid gene 2	Sulfotransferase hydroxysteroid gene 2
3150	21350	NM_012823	a	Annexin A3	Annexin A3
3235	357	NM_013086	w	CAMP responsive element modulator	CAMP responsive element modulator
3237	18096	NM_013088	ff	SH-PTP2 protein tyrosine phosphatase, non-receptor type 11	SH-PTP2 protein tyrosine phosphatase, non-receptor type 11
3259	200	NM_013161	k, v	Pancreatic lipase	Pancreatic lipase
3263	2012	NM_013173	r	Solute carrier family 11 member 2 (natural resistance-associated macrophage protein 2)	Solute carrier family 11 member 2 (natural resistance-associated macrophage protein 2)
3263	2013	NM_013173	r	Solute carrier family 11 member 2 (natural resistance-associated macrophage protein 2)	Solute carrier family 11 member 2 (natural resistance-associated macrophage protein 2)
3307	18973	NM_017060	kk		ESTs, Moderately similar to S14234 hypothetical protein - mouse [M.musculus]
3366	21903	NM_017220	ss	cytochrome P450, 2c37	cytochrome P450, 2c37
3388	20914	NM_017272	j, o, v, vv	aldehyde dehydrogenase family 1, subfamily A4	aldehyde dehydrogenase family 1, subfamily A4
3416	16148	NM_017340	o, y, jj, ss, xx	acyl-coA oxidase	acyl-coA oxidase
3416	16150	NM_017340	o, jj	acyl-coA oxidase	acyl-coA oxidase
3443	1173	NM_019184	j, rr	Cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)	Cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3443	1174	NM_019184	rr	Cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)	Cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)
3480	20553	NM_019293	l, p		ESTs, Moderately similar to S12207 hypothetical protein (B2 element) - mouse [M.musculus]
3499	18032	NM_019380	w	stromal cell derived factor receptor 1	stromal cell derived factor receptor 1
3554	43	NM_022287	General, dd, ff, rr	sulfate anion transporter	sulfate anion transporter
3603	21072	NM_022601	k	pyridoxine 5'-phosphate oxidase	pyridoxine 5'-phosphate oxidase
3605	21203	NM_022606	u	protein phosphatase 2C	protein phosphatase 2C
3605	21204	NM_022606	u	protein phosphatase 2C	protein phosphatase 2C
3607	5336	NM_022631	v		ESTs, Highly similar to synembryn [Mus musculus] [M.musculus]
3629	23606	NM_022867	ii	microtubule-associated proteins 1A/1B light chain 3	microtubule-associated proteins 1A/1B light chain 3
3629	23608	NM_022867	ll	microtubule-associated proteins 1A/1B light chain 3	microtubule-associated proteins 1A/1B light chain 3
3644	17486	NM_023092	g, cc	unconventional myosin Myr2 I heavy chain	unconventional myosin Myr2 I heavy chain
3644	17487	NM_023092	mm	unconventional myosin Myr2 I heavy chain	unconventional myosin Myr2 I heavy chain
3677	2811	NM_024386	jj	3-hydroxy-3-methylglutaryl CoA lyase	3-hydroxy-3-methylglutaryl CoA lyase
3677	2812	NM_024386	rr	3-hydroxy-3-methylglutaryl CoA lyase	3-hydroxy-3-methylglutaryl CoA lyase
3677	2813	NM_024386	o, ii	3-hydroxy-3-methylglutaryl CoA lyase	3-hydroxy-3-methylglutaryl CoA lyase
3684	16141	NM_024405	nn	GSK-3beta interacting protein rAxin	GSK-3beta interacting protein rAxin
3691	4057	NM_030844	u	islet cell autoantigen 1, 69 kDa	islet cell autoantigen 1, 69 kDa
3714	485	NM_031017	c	cAMP response element binding protein 1	cAMP response element binding protein 1
3732	17269	NM_031057	General, kk	methylmalonate semialdehyde dehydrogenase gene	methylmalonate semialdehyde dehydrogenase gene
3741	1403	NM_031087	jj	presenilin-2	presenilin-2
3743	1175	NM_031093	x, xx	Cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)	Cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)
3774	15238	NM_031153	l	shank-interacting protein	shank-interacting protein
3778	8149	NM_031242	ii	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 1	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 1
3789	23358	NM_031342	rr	lysophospholipase II	lysophospholipase II
3825	15803	NM_031593	bb	synaptic vesicle protein 2C	synaptic vesicle protein 2C

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3890	21646	NM_031781	General, ll	amyloid beta (A4) precursor protein-binding, family A, member 3 (X11-like 2)	amyloid beta (A4) precursor protein-binding, family A, member 3 (X11-like 2)
3894	15794	NM_031796	qq	UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase T5	UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase T5
3900	15759	NM_031815	kk	activin beta E	activin beta E
3905	7914	NM_031835	b, h, l, General, nn	beta-alanine-pyruvate aminotransferase	beta-alanine-pyruvate aminotransferase
3938	21102	NM_033021	q	vesicle associated protein	vesicle associated protein
3938	21103	NM_033021	q, x	vesicle associated protein	vesicle associated protein
3975	23338	NM_053416	n, rr	double-stranded RNA-binding protein p74	double-stranded RNA-binding protein p74
3979	14621	NM_053437	o, ss	diacylglycerol acyltransferase	diacylglycerol acyltransferase
4006	21534	NM_053588	f	Trif gene	Trif gene
4015	1126	NM_053605	v, y, oo	sphingomyelin phosphodiesterase 3, neutral	sphingomyelin phosphodiesterase 3, neutral
4023	15777	NM_053630	v	potassium voltage-gated channel, subfamily H (eag-related), member 4	potassium voltage-gated channel, subfamily H (eag-related), member 4
4057	15103	NM_053814	l, bb	Rho interacting protein 3	Rho interacting protein 3
4081	17090	NM_053906	t, mm	glutathione reductase	glutathione reductase
4081	17091	NM_053906	qq	glutathione reductase	glutathione reductase
4119	968	NM_057133	l, v, bb	nuclear receptor subfamily 0, group B, member 2	nuclear receptor subfamily 0, group B, member 2
4171	4956	NM_133315	n	solute carrier family 39 (iron-regulated transporter), member 1	solute carrier family 39 (iron-regulated transporter), member 1
4171	4957	NM_133315	f, n, y, ll	solute carrier family 39 (iron-regulated transporter), member 1	solute carrier family 39 (iron-regulated transporter), member 1
4177	21576	NM_133398	oo	LYRIC	LYRIC
4187	11483	NM_133546	f, n, General, kk	myeloid differentiation primary response gene 116	myeloid differentiation primary response gene 116
4187	18043	NM_133546	w, z, General, kk, tt	myeloid differentiation primary response gene 116	myeloid differentiation primary response gene 116
4188	13968	NM_133553	kk	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4
4188	13969	NM_133553	e	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4
4190	17886	NM_133561	t, gg, hh	brain protein 44-like	brain protein 44-like
4190	17887	NM_133561	q	brain protein 44-like	brain protein 44-like
4220	4849	NM_134415	h, y	CDK105 protein	CDK105 protein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4236	48	NM_138547	b	3-alpha-hydroxysteroid dehydrogenase	3-alpha-hydroxysteroid dehydrogenase
4236	25475	NM_138547	b	3-alpha-hydroxysteroid dehydrogenase	3-alpha-hydroxysteroid dehydrogenase
4246	9796	NM_138847	f, q	Saccharomyces cerevisiae Nip7p homolog	Saccharomyces cerevisiae Nip7p homolog
4248	11435	NM_138865	tt	testis specific protein	testis specific protein
4282	11502	NM_139255	l, p, q, y, ww	RDCR-0918-3 protein	RDCR-0918-3 protein
4314	23070	NM_148891	m, General, ee, oo		ESTs, Highly similar to NMT1_MOUSE Glycylpeptide N-tetradecanoyltransferase 1 (Peptide N-myristoyltransferase 1) (Myristoyl-CoA:protein N-myristoyltransferase 1) (NMT 1) (Type I N-myristoyltransferase) [M.musculus]
4319	17995	NM_153312	e, j		Rattus norvegicus Sprague Dawley testosterone 6-beta-hydroxylase, cytochrome P450/6-beta-A, (CYP3A2) mRNA, complete cds
4359	15462	U06230	ii	protein S	protein S
4362	17281	U10697	j, x, dd, rr	carboxylesterase 1	carboxylesterase 1
4372	18302	U33500	n, tt		Rattus norvegicus retinol dehydrogenase type II mRNA, complete cds
4374	212	U36895	cc		Rattus norvegicus putative pheromone receptor VN3 mRNA, complete cds
4435	15106	X57529	v		ESTs, Highly similar to RS18_HUMAN 40S ribosomal protein S18 (KE-3) (KE3) [R.norvegicus]
4457	436	X67877	pp		R.norvegicus mRNA for cytosolic resiniferatoxin-binding protein
4479	25777	Y08355	h, l, General, uu, xx	oxidative stress induced	oxidative stress induced
1940	23574	AI104520	ll	Cytochrome c oxidase subunit VIa (liver)	Cytochrome c oxidase subunit VIa (liver)
2592	573	AI232087	h, l, m, qq	hydroxyacid oxidase 3 (medium-chain)	hydroxyacid oxidase 3 (medium-chain)
2926	21011	H32189	nn	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type 2 (Yb2)
2942	21012	J02592	b, l, General, gg, hh, kk, ll	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type 2 (Yb2)
2945	21014	J03914	b, l, o, x, General, ll, rr	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type 2 (Yb2)
3025	19823	M61725	oo	Transcription factor UBF	Transcription factor UBF
3181	2830	NM_012925	l, p, nn	CD59 antigen	CD59 antigen

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3293	21013	NM_017014	cc	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type 2 (Yb2)
3293	21015	NM_017014	s, cc	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type 2 (Yb2)
3342	21975	NM_017154	l	xanthine dehydrogenase	xanthine dehydrogenase
3436	24362	NM_019156	a	vitronectin	vitronectin
3470	21443	NM_019262	nn	complement component 1, q subcomponent, beta polypeptide	complement component 1, q subcomponent, beta polypeptide
3515	20816	NM_021261	e, ii, ll	thymosin, beta 10	thymosin, beta 10
3627	180	NM_022853	s	solute carrier family 30 (zinc transporter), member 1	solute carrier family 30 (zinc transporter), member 1
3666	844	NM_024352	h, l, n, uu	Macrophage stimulating 1 (hepatocyte growth factor-like)	Macrophage stimulating 1 (hepatocyte growth factor-like)
3687	862	NM_024487	w	GrpE-like 1, mitochondrial	GrpE-like 1, mitochondrial
3872	3548	NM_031723	u, ww	signal peptidase complex (18kD)	signal peptidase complex (18kD)
3872	3549	NM_031723	r, tt	signal peptidase complex (18kD)	signal peptidase complex (18kD)
3912	16535	NM_031853	bb	Diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)	Diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)
4042	18174	NM_053752	o	succinate-CoA ligase, GDP-forming, alpha subunit	succinate-CoA ligase, GDP-forming, alpha subunit
4264	15134	NM_139081	c	Ornithine decarboxylase antizyme 1	ESTs, Highly similar to OAZ_RAT Ornithine decarboxylase antizyme (ODC-Az) [R.norvegicus]
226	4877	AA818887	nn		Rattus norvegicus MHC class I mRNA, complete cds
545	13307	AA891576	d		ESTs, Weakly similar to S49158 complement protein C1q beta chain precursor - rat [R.norvegicus]
844	15577	AA924557	p		ESTs, Highly similar to vesicle-associated calmodulin-binding protein [Rattus norvegicus] [R.norvegicus]
871	5110	AA925274	ii		ESTs, Highly similar to OKRT2R protein kinase (EC 2.7.1.37), cAMP-dependent, type II-alpha regulatory chain - rat (fragment) [R.norvegicus]
1559	7912	AI043836	oo		ESTs, Weakly similar to S53340 CD59 protein - rat [R.norvegicus]
1852	11636	AI101967	r	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 3	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
2019	13717	AI137131	ll		ESTs, Moderately similar to S21976 probable RNA-directed DNA polymerase (EC 2.7.7.49) (clone MH2C) - rat retrotransposon L1 (fragment) [R.norvegicus]	
2082	11961	AI169030	z		ESTs, Weakly similar to GrpE-like 1, mitochondrial; stress-inducible chaperone mt GrpE#1 [Rattus norvegicus] [R.norvegicus]	
2126	3547	AI170279	dd		ESTs, Weakly similar to S54303 zinc transport protein ZnT-1 - rat [R.norvegicus]	
2202	15673	AI172107	ss	sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)	sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)	
2322	13310	AI177119	j, jj		ESTs, Weakly similar to S49158 complement protein C1q beta chain precursor - rat [R.norvegicus]	
2702	14923	AI235223	nn		ESTs, Weakly similar to A60716 somatotropin intron-related protein RDE.25 - rat (fragment) [R.norvegicus]	
2859	19943	AI639479	qq		ESTs, Highly similar to 2008147A protein RAKb [Rattus norvegicus] [R.norvegicus]	
2893	15671	D37934	uu	sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)	sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)	
3099	14924	NM_012645	h, ii	RT1 class Ib gene	ESTs, Weakly similar to A60716 somatotropin intron-related protein RDE.25 - rat (fragment) [R.norvegicus], RT1 class Ib gene	
3567	24536	NM_022399	q	calreticulin	calreticulin	
3875	21853	NM_031738	oo		ESTs, Highly similar to solute carrier family 29 (nucleoside transporters), member 2 [Rattus norvegicus] [R.norvegicus]	
4045	1868	NM_053768	General, dd, vv	urate oxidase	urate oxidase	
4045	1869	NM_053768	q, General, dd, vv	urate oxidase	urate oxidase	
4049	7211	NM_053791	gg, hh	prolactin-like protein M	prolactin-like protein M	
4084	19942	NM_053946	b, q, dd	implantation-associated protein	implantation-associated protein	
4172	15553	NM_133320	p, z	LIS1-interacting protein NUDEL; endooligopeptidase A	LIS1-interacting protein NUDEL; endooligopeptidase A	
4283	1789	NM_139257	cc		ESTs, Moderately similar to A45835 Ly6 homolog RK10 precursor - rat [R.norvegicus]	
4293	1045	NM_144758	l, s, General, oo, uu, vv, ww	peptide/histidine transporter	Rattus norvegicus mRNA for peptide/histidine transporter, complete cds	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
568	17060	AA891812	y, gg, hh		ESTs, Highly similar to S54147 alpha adducin - rat [R.norvegicus]
568	17061	AA891812	s		ESTs, Highly similar to S54147 alpha adducin - rat [R.norvegicus]
1437	19591	AI012747	r		ESTs, Highly similar to BLMH_RAT Bleomycin hydrolase (BLM hydrolase) (BMH) (BH) [R.norvegicus]
1923	16915	AI104104	xx		ESTs, Highly similar to QYRTGP phosphoenolpyruvate carboxykinase (GTP) (EC 4.1.1.32), cytosolic - rat [R.norvegicus]
2573	18625	AI231375	k	RT1 class Ib gene	RT1 class Ib gene
3003	18618	M24026	j, ss	RT1 class Ib gene	RT1 class Ib gene
3099	18617	NM_012645	p	RT1 class Ib gene	RT1 class Ib gene
4055	18628	NM_053806	n, ee, gg, hh, jj	RT1 class Ib gene	RT1 class Ib gene
1246	25148	AB008807	bb	glutathione S-transferase omega 1	
1247	25149	AB009246	gg, hh	stem cell growth factor	
1258	15292	AF012714	ff	multiple inositol polyphosphate histidine phosphatase 1	multiple inositol polyphosphate histidine phosphatase 1
1287	18731	AF093139	ww	tip associating protein	tip associating protein
1968	15291	AI111401	t, ff, mm	multiple inositol polyphosphate histidine phosphatase 1	multiple inositol polyphosphate histidine phosphatase 1
2869	25233	AJ000556	p, mm	Janus kinase 1	
2891	25278	D30734	k, ii, tt	RAS p21 protein activator 2	
2894	15123	D38066	j, t, mm, xx	UDP-glucuronosyltransferase 1 family, member 1	UDP-glucuronosyltransferase 1 family, member 1
2896	9134	D45247	j, y	proteasome beta type subunit 5	
2971	6963	L18889	ff	calnexin	
3006	25430	M26247	p	Coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B)	
3016	20699	M35601	vv	Fibrinogen, A alpha polypeptide	Fibrinogen, A alpha polypeptide
3016	20700	M35601	a, r, x, vv	Fibrinogen, A alpha polypeptide	Fibrinogen, A alpha polypeptide
3036	21882	M83740	a, General, ff	dimerization cofactor of hepatocyte nuclear factor-1-alpha	
3039	13488	M91599	g, General, uu	Fibroblast growth factor receptor 4	
3129	5317	NM_012737	d, p, w, ee, mm	Apolipoprotein A-IV	Apolipoprotein A-IV
3144	10248	NM_012797	ff	Inhibitor of DNA binding 1, helix-loop-helix protein (splice variation)	Inhibitor of DNA binding 1, helix-loop-helix protein (splice variation)



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3170	631	NM_012896	g, ss	Adenosine receptor A3	Adenosine receptor A3
3220	2667	NM_013048	b, h, uu	Tocopherol transfer protein alpha	
3274	397	NM_013214	o	brain acyl-CoA hydrolase	brain acyl-CoA hydrolase
3274	20851	NM_013214	jj	brain acyl-CoA hydrolase	brain acyl-CoA hydrolase
3286	24897	NM_016993	pp	B cell lymphoma 2 associated oncogene	B cell lymphoma 2 associated oncogene
3311	11152	NM_017073	q, z	Glutamine synthetase (glutamate-ammonia ligase)	Glutamine synthetase (glutamate-ammonia ligase)
3311	11153	NM_017073	q, r, s, z, rr	Glutamine synthetase (glutamate-ammonia ligase)	Glutamine synthetase (glutamate-ammonia ligase)
4264	25250	NM_139081	c, t	Ornithine decarboxylase antizyme 1	
4264	25251	NM_139081	c, m	Ornithine decarboxylase antizyme 1	
4334	25505	S65091	g, y	cAMP-regulated phosphoprotein (21 kDa)	
4367	25593	U26310	k	tensin	
4381	11916	U50842	qq	Neural precursor cell expressed, developmentally down-regulated gene 4	
4389	25083	U72632	nn	amine oxidase, copper containing 3	
4394	25642	U77697	gg, hh	platelet/endothelial cell adhesion molecule	
4416	15652	X14210	h, gg, hh	ribosomal protein S4, X-linked	
4422	25686	X51536	z, General	ribosomal protein S3	
4427	12859	X53052	s, v	Major intrinsic protein of eye lens fiber	
4437	5667	X58200	h, l, z, General, ee	ribosomal protein L23	
4445	25718	X62145	c, cc	ribosomal protein L8	
4453	25090	X63594	ii	Inhibitor of nuclear factor of kappa light chain gene enhancer in B-cells, alpha	
4466	25746	X80778	t	dihydroorotate dehydrogenase	
4476	1620	X97374	bb	Prepronociceptin (neuropeptide nociceptin) (N23K)	Prepronociceptin (neuropeptide nociceptin) (N23K)
4482	20426	Z12158	ff, gg, hh	Pyruvate dehydrogenase (lipoamide) alpha 1	
4321	11755	NM_153314	b, l, s, General, cc, vv	UDP-glucuronosyltransferase 2 family, member 5	
4395	25643	U77829	l, General, bb, ii, uu	growth arrest specific 5	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4395	4477	U77829	ii, rr	growth arrest specific 5	ESTs
1	25120	A03913	bb, pp		
2	6857	AA012807	gg, hh		ESTs
3	25098	AA108277	e		
4	4433	AA684641	b, x, General		ESTs
7	2102	AA685760	r		ESTs
8	25103	AA685876	d		
9	4426	AA685974	h, l, v, uu		ESTs, Weakly similar to Y73E7A.1.p [Caenorhabditis elegans] [C.elegans]
10	16704	AA686132	o		
11	14286	AA686361	j		
15	18272	AA799294	pp		ESTs
17	18396	AA799330	f, l, j, General, kk, qq		ESTs, Weakly similar to T47122 cell division protein pelota [imported] - fruit fly (Drosophila melanogaster) [D.melanogaster]
19	15083	AA799396	p		ESTs
20	15084	AA799397	k		ESTs
21	26053	AA799406	x		
24	18365	AA799442	g, rr		ESTs
24	18366	AA799442	ss		ESTs
25	18160	AA799448	t		ESTs
26	18859	AA799467	gg, hh		ESTs
27	4206	AA799474	ll		ESTs, Highly similar to CY1_HUMAN Cytochrome c1, heme protein, mitochondrial precursor [H.sapiens]
30	18561	AA799481	l, s, pp		ESTs, Weakly similar to esc-P1 [Drosophila melanogaster] [D.melanogaster]
31	11350	AA799488	c, ee, gg, hh, ss		ESTs
36	18327	AA799537	q, bb		ESTs
39	24628	AA799542	oo		ESTs
41	22669	AA799567	jj		ESTs
43	20971	AA799576	a, ii, rr		ESTs, Highly similar to T46259 hypothetical protein DKFZp761E0323.1 - human (fragment) [H.sapiens]
46	18331	AA799594	b		ESTs
47	17712	AA799598	tt		ESTs
48	15844	AA799600	d		ESTs, Highly similar to hypothetical protein DKFZp586I021 [Homo sapiens] [H.sapiens]
49	20977	AA799609	ww		ESTs, Moderately similar to T43443 hypothetical protein DKFZp434A2315.1 - human (fragment) [H.sapiens]
54	22909	AA799654	rr		ESTs
55	11313	AA799656	d		ESTs
55	11314	AA799656	ss		ESTs

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
57	20987	AA799664	y		ESTs
58	11690	AA799667	m		Rattus norvegicus CDK106 mRNA
59	23878	AA799686	vv		ESTs
61	20994	AA799717	q, dd, ll		ESTs, Highly similar to RPB9_HUMAN DNA-directed RNA polymerase II 14.5 kDa polypeptide (RPB9) (RPB14.5) [H.sapiens]
62	23084	AA799721	y		ESTs
64	8768	AA799726	f, l, u, v		ESTs
67	18349	AA799744	e, p, z, General, qq		ESTs
68	17494	AA799751	s, y		ESTs
70	18360	AA799771	xx		ESTs
72	6425	AA799784	a		ESTs
75	17604	AA799796	a, s		ESTs
78	14504	AA799804	u		ESTs
79	11423	AA799812	oo		ESTs, Moderately similar to PTN3_HUMAN Protein tyrosine phosphatase, non-receptor type 3 (Protein-tyrosine phosphatase H1) (PTP-H1) [H.sapiens]
81	21001	AA799822	a		ESTs
81	18844	AA799822	v		ESTs
83	10543	AA799847	ee		ESTs
84	21005	AA799858	bb		EST, Moderately similar to ODPB_RAT Pyruvate dehydrogenase E1 component beta subunit, mitochondrial precursor (PDHE1-B) [R.norvegicus]
86	12788	AA799871	q, s, z, dd		ESTs
88	18381	AA799889	ff		ESTs
89	18179	AA799891	oo		ESTs
89	18180	AA799891	d, w		ESTs
92	23202	AA799971	ss		ESTs, Moderately similar to hypothetical protein FLJ10986 [Homo sapiens] [H.sapiens]
93	21029	AA799981	xx		ESTs
94	18400	AA799991	General		ESTs
98	23343	AA800016	a		ESTs, Weakly similar to Yeast ABD1 protein like [Caenorhabditis elegans] [C.elegans]
99	21034	AA800025	g		ESTs
100	23344	AA800034	j, dd, ll, ww		ESTs
102	18405	AA800044	f		ESTs
104	19177	AA800062	a, u		ESTs
108	18430	AA800197	b, f, q, General		ESTs
109	16661	AA800198	j, ww, xx		ESTs, Weakly similar to ORM1_YEAST ORM1 PROTEIN [S.cerevisiae]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
111	21069	AA800200	f, y		ESTs
112	18433	AA800218	jj		ESTs, Weakly similar to T15476 hypothetical protein C09F5.2 - <i>Caenorhabditis elegans</i> [C.elegans]
113	600	AA800222	ss		ESTs
114	7947	AA800224	ww		ESTs, Weakly similar to C27H6.4.p [Caenorhabditis elegans] [C.elegans]
118	21083	AA800290	ll, ww		ESTs
118	21084	AA800290	ww		ESTs
122	23476	AA800319	ii		ESTs, Weakly similar to apolipoprotein L, 3; TNF-inducible protein CG12-1 [Homo sapiens] [H.sapiens]
125	21099	AA800503	u		ESTs
127	16795	AA800570	jj		ESTs
128	19073	AA800576	l, m, General, gg, hh, jj, uu		ESTs
129	2070	AA800597	ff		ESTs
130	13930	AA800613	n, tt		EST
131	12070	AA800622	s, z, General		ESTs, Weakly similar to K08H10.9.p [Caenorhabditis elegans] [C.elegans]
132	4843	AA800651	r		ESTs
134	18079	AA800665	x, y		ESTs
135	19084	AA800669	uu		ESTs, Highly similar to A36180 61K transforming protein - human [H.sapiens]
137	5257	AA800673	j, ww		ESTs, Highly similar to KIAA0164 gene product [Homo sapiens] [H.sapiens]
138	23368	AA800678	n, r, General, kk		ESTs
139	19087	AA800679	x, z		ESTs, Weakly similar to putative nucleotide binding protein, estradiol-induced [Homo sapiens] [H.sapiens]
141	18069	AA800686	a, q, dd, oo		ESTs
142	21372	AA800693	c, j, o, ww		ESTs
142	21373	AA800693	l, p		ESTs
143	21375	AA800699	f, l		ESTs, Weakly similar to YN60_YEAST HYPOTHETICAL 32.3 KDA PROTEIN IN KAE1-HXT14 INTERGENIC REGION [S.cerevisiae]
144	18161	AA800701	c		ESTs
145	19091	AA800717	l		ESTs
146	21377	AA800719	kk		ESTs
148	16385	AA800737	p		ESTs, Weakly similar to T42209 neural plakophilin related arm-repeat protein NPRAP - mouse [M.musculus]

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
150	21380	AA800739	z, ee		ESTs, Weakly similar to KT12_YEAST KT12 PROTEIN [S.cerevisiae]
151	8137	AA800749	h		ESTs
152	6595	AA800753	gg, hh, tt		ESTs
153	23213	AA800786	r		ESTs
154	19101	AA800787	a, qq		ESTs
156	19103	AA800797	General, dd, ff		ESTs
157	11662	AA800803	bb		ESTs, Weakly similar to YNP5_CAEEL HYPOTHETICAL 28.3 KDA PROTEIN T05G5.5 IN CHROMOSOME III [C.elegans]
159	8207	AA800850	qq		ESTs
161	21403	AA800885	t, nn		ESTs
162	13348	AA800928	t, ff, mm		ESTs
167	13919	AA801070	m		ESTs
169	22318	AA801187	pp		ESTs
171	21442	AA801244	g		ESTs
172	10549	AA801255	l		ESTs
173	21593	AA801368	nn		ESTs
176	5959	AA817813	ll		ESTs
177	23725	AA817816	xx		ESTs
178	1690	AA817829	General, cc, qq		ESTs
179	6306	AA817831	z		ESTs
180	1802	AA817841	n		ESTs
181	1846	AA817844	jj		ESTs
182	1900	AA817849	ii		ESTs
183	11639	AA817860	mm		ESTs
185	5972	AA817917	pp		EST
187	2781	AA817925	c, l, z, General, bb, pp, rr		ESTs
190	5977	AA817969	r		ESTs
192	5979	AA817990	l, General		ESTs
194	2897	AA818039	l		ESTs
195	5996	AA818065	cc, tt		ESTs
197	6313	AA818093	g		EST
200	3476	AA818142	cc		ESTs, Weakly similar to F13B9.8.p [Caenorhabditis elegans] [C.elegans]
203	6027	AA818244	s		ESTs
205	6037	AA818288	l		ESTs
206	7628	AA818380	d		ESTs
207	7714	AA818394	xx		ESTs
210	7806	AA818421	nn		ESTs
211	6224	AA818511	m		ESTs
212	6226	AA818521	oo		ESTs
214	6231	AA818595	o		ESTs
215	18874	AA818602	cc		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
218	4250	AA818700	ww		ESTs
219	6060	AA818702	b, r		ESTs
220	11610	AA818725	m		ESTs
221	4291	AA818741	t, ff		ESTs
223	19723	AA818761	tt		ESTs
224	6188	AA818774	l, General, ff		ESTs
227	6090	AA818889	cc		ESTs
228	4952	AA818907	q, z, General, dd, ee, kk		ESTs
229	6094	AA818911	xx		ESTs
230	5966	AA818947	ss		ESTs
238	24721	AA819306	h, w		ESTs
242	6252	AA819381	ff, vv		ESTs
243	6254	AA819390	c, d, ww		ESTs
244	12096	AA819415	t, ff, mm		ESTs
245	13985	AA819429	u		
246	6268	AA819441	nn		ESTs
247	19438	AA819450	xx		EST
251	6284	AA819537	p, General		ESTs
253	6171	AA819633	n		ESTs
254	6723	AA819653	j		ESTs, Weakly similar to S44652 f42h10.6 protein - <i>Caenorhabditis elegans</i> [ <i>C.elegans</i> ]
255	6175	AA819655	x		EST
256	6176	AA819657	bb		EST
257	6295	AA819672	General		ESTs
259	16088	AA819717	b, c, p		ESTs
261	7111	AA819816	p, w		ESTs
262	11640	AA819828	l		ESTs
263	6198	AA819840	nn		ESTs
267	7559	AA819918	qq		ESTs
268	24629	AA848238	z, General		ESTs
270	7436	AA848354	dd		ESTs, Moderately similar to hypothetical protein FLJ23251 [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
272	23521	AA848407	h, m, x		ESTs
273	21125	AA848437	l, General		ESTs
274	11160	AA848470	pp		ESTs
275	23504	AA848496	b, l, gg, hh, rr		ESTs, Moderately similar to IF4B_HUMAN Eukaryotic translation initiation factor 4B (eIF4B) [ <i>H.sapiens</i> ]
275	23505	AA848496	l, rr		ESTs, Moderately similar to IF4B_HUMAN Eukaryotic translation initiation factor 4B (eIF4B) [ <i>H.sapiens</i> ]
276	6872	AA848508	x		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
278	18518	AA848540	n		ESTs, Weakly similar to PC326 protein [Homo sapiens] [H.sapiens]
279	19503	AA848639	y		ESTs
280	11167	AA848696	c		ESTs, Weakly similar to S30833 hypothetical protein YEL044w - yeast (Saccharomyces cerevisiae) [S.cerevisiae]
281	6165	AA848780	j, ff, pp		ESTs
284	21176	AA849003	d		ESTs
285	12114	AA849092	j		ESTs
286	3487	AA849132	ff		ESTs
288	12453	AA849263	v		ESTs
289	14211	AA849391	f		ESTs
290	18909	AA849426	a, v, General, dd, uu		ESTs, Weakly similar to YLC4_CAEEL Hypothetical 81.0 kDa protein C35D10.4 in chromosome III [C.elegans]
291	17339	AA849497	c, v, dd		ESTs
292	12122	AA849586	j		ESTs
293	2841	AA849714	o, ii, xx		ESTs
294	18693	AA849715	tt		ESTs
296	6634	AA849777	xx		ESTs
298	8595	AA849789	pp		ESTs
300	21275	AA849796	pp, tt		ESTs
302	16678	AA849827	General		ESTs
304	16501	AA849876	ee		ESTs
305	18446	AA849939	d		ESTs
305	18447	AA849939	d		ESTs
308	18390	AA850038	l, p, General		ESTs
309	26058	AA850076	gg, hh		ESTs
310	19009	AA850164	x, ss		ESTs
311	21341	AA850195	General, ii		ESTs
312	19416	AA850244	vv		ESTs
313	21353	AA850247	u		ESTs
314	13615	AA850364	b		ESTs, Moderately similar to RB17_MOUSE Ras-related protein Rab-17 [M.musculus]
318	16568	AA850582	ss		ESTs, Weakly similar to GL004 protein [Homo sapiens] [H.sapiens]
320	7596	AA850686	a, oo, tt		ESTs
321	26064	AA850733	p		
322	17522	AA850812	dd		ESTs
324	21762	AA850886	e		ESTs
325	21766	AA850916	q		ESTs
326	14734	AA850917	w		ESTs
329	12164	AA851029	ii, ll		ESTs
339	18961	AA851238	u, ww	fasting-inducible integral membrane protein TM6P1	fasting-inducible integral membrane protein TM6P1
340	21457	AA851253	General		ESTs
342	17482	AA851264	d		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
343	21465	AA851273	g		ESTs, Weakly similar to retinoic acid receptor responder (tazarotene induced) 2 [Homo sapiens] [H.sapiens]
343	21466	AA851273	g		ESTs, Weakly similar to retinoic acid receptor responder (tazarotene induced) 2 [Homo sapiens] [H.sapiens]
344	10714	AA851279	bb		ESTs
345	21469	AA851318	s, bb		EST
348	21479	AA851401	u		ESTs
350	12173	AA851455	k		ESTs
351	2639	AA851456	q, General		ESTs
352	16404	AA851466	t, rr		ESTs
352	16405	AA851466	ii, rr		ESTs
353	21510	AA851620	ee, pp		ESTs
354	21514	AA851660	s		ESTs
359	2091	AA851873	tt		ESTs
360	23370	AA851938	q		ESTs
361	21561	AA851951	d, f, r		
362	21572	AA852011	u		ESTs
364	6474	AA858457	c		ESTs
366	24161	AA858588	c		ESTs
367	24377	AA858590	l, z, General, kk, nn, pp		ESTs
369	18085	AA858603	t		EST, Weakly similar to T16084 hypothetical protein F16H11.1 - Caenorhabditis elegans [C.elegans]
370	17382	AA858607	c, p, oo		ESTs
373	6347	AA858660	l, nn		ESTs
374	18350	AA858674	y, General		ESTs
376	13229	AA858760	f		ESTs
377	6384	AA858788	d, ss		ESTs
378	11615	AA858816	j		ESTs, Weakly similar to F53A3.7.p [Caenorhabditis elegans] [C.elegans]
380	14234	AA858928	bb		ESTs
384	6420	AA859000	ii		ESTs
385	6830	AA859010	ww		ESTs
387	17361	AA859114	n		ESTs
389	15081	AA859218	b		ESTs
391	6717	AA859252	l, m		ESTs
393	21851	AA859330	xx		ESTs
394	16314	AA859348	a		ESTs
395	13052	AA859351	j, pp		ESTs
397	25030	AA859372	gg, hh		
399	11827	AA859468	ii, ww		ESTs
400	23142	AA859479	ii		ESTs
401	13271	AA859502	f		ESTs



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
402	16315	AA859509	ee		ESTs
404	14486	AA859524	cc		ESTs
405	4178	AA859536	s, t		ESTs
406	14353	AA859585	c, f, p, ff		ESTs
407	11852	AA859593	l, l, n, p, z, General		ESTs
409	13381	AA859626	l		ESTs
412	17316	AA859652	l, y, z, ee, nn, pp		ESTs
413	19067	AA859663	y, General		ESTs
414	19726	AA859665	k		EST
415	14261	AA859693	y		ESTs, Weakly similar to YNH2_CAEEL HYPOTHETICAL 31.0 KD PROTEIN R107.2 IN CHROMOSOME III [C.elegans]
417	21707	AA859722	e, p, q, y		ESTs
418	19530	AA859740	n		ESTs
422	11079	AA859829	d		ESTs
424	22739	AA859877	q, dd		ESTs
425	22813	AA859897	ff, pp		ESTs
426	22816	AA859898	ii		ESTs
427	22889	AA859909	j		ESTs
428	22927	AA859920	j, m, ii, pp		ESTs
429	22999	AA859933	n		ESTs
429	23000	AA859933	d, n, t		ESTs
430	22408	AA859952	s		ESTs
431	18468	AA859966	q, ff, oo, qq		ESTs, Moderately similar to TNP1_HUMAN Tumor necrosis factor, alpha-induced protein 1, endothelial (B12 protein) [H.sapiens]
437	18469	AA859990	q		ESTs, Moderately similar to TNP1_HUMAN Tumor necrosis factor, alpha-induced protein 1, endothelial (B12 protein) [H.sapiens]
438	11863	AA859996	d		ESTs
443	23716	AA860044	r, z, General		ESTs
444	19144	AA860049	a		ESTs
446	16322	AA866240	h		EST
447	7960	AA866291	g		ESTs
448	15898	AA866293	k		EST
450	15927	AA866321	o, v, ff		ESTs
451	15870	AA866358	jj		ESTs
452	16607	AA866364	c		ESTs
453	11865	AA866383	e, h, gg, hh		ESTs
454	10523	AA866409	k		
456	15980	AA866426	kk		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
457	16853	AA866454	gg, hh		ESTs
457	16854	AA866454	j, gg, hh		ESTs
458	18995	AA866459	General		ESTs, Highly similar to hypothetical protein MGC4175 [Homo sapiens] [H.sapiens]
466	16085	AA874889	ff, ii, nn, ss		ESTs
467	16615	AA874912	x		ESTs
468	16138	AA874927	d		ESTs
468	16139	AA874927	qq, ss, vv		ESTs
472	11239	AA874993	ii, pp		ESTs
473	16192	AA874995	n, y		ESTs
475	16237	AA875017	p		ESTs
477	16312	AA875032	tt		ESTs
479	6490	AA875042	ww		ESTs, Weakly similar to hypothetical protein FLJ21801 [Homo sapiens] [H.sapiens]
485	4721	AA875090	g		ESTs
489	15309	AA875122	s, z		ESTs
490	15310	AA875123	h		EST
491	15311	AA875124	jj		EST
492	15312	AA875126	l, v, General, xx		ESTs
492	15313	AA875126	f, l, j, nn		ESTs
494	15316	AA875129	g, jj		ESTs
496	22349	AA875148	General		ESTs
500	15384	AA875217	k		ESTs
502	15401	AA875257	c, d, gg, hh		ESTs
503	15402	AA875261	f, ss		ESTs
506	15420	AA875286	jj		ESTs, Highly similar to prostate tumor over expressed gene 1 [Homo sapiens] [H.sapiens]
506	15421	AA875286	n, p, kk, xx		ESTs, Highly similar to prostate tumor over expressed gene 1 [Homo sapiens] [H.sapiens]
507	15445	AA875327	j		ESTs
507	15446	AA875327	c, kk		ESTs
508	15510	AA875428	k		ESTs
510	7936	AA875495	General		ESTs
511	13477	AA875496	n		ESTs
512	19381	AA875506	p		ESTs, Weakly similar to 0806162N protein URFA6L [Mus musculus] [M.musculus]
517	15587	AA875577	z, General		ESTs
519	15617	AA875620	l, General, ii, ll, qq, rr		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
519	15618	AA875620	I, General, II, qq, ww		ESTs
520	15629	AA875629	pp		ESTs
527	19646	AA891054	qq		ESTs
528	11940	AA891108	d, t, bb		ESTs
529	21909	AA891161	ss		ESTs
530	18582	AA891207	w, z, ee, kk		ESTs
532	21917	AA891220	ee, xx		ESTs
534	15152	AA891314	d		ESTs
535	16446	AA891423	ii		ESTs
536	11599	AA891438	cc		ESTs, Weakly similar to C42D8.3.p [Caenorhabditis elegans] [C.elegans]
538	16997	AA891447	bb		ESTs
541	21905	AA891546	r		ESTs
543	21955	AA891559	y, ss		ESTs
544	7522	AA891571	General		ESTs, Weakly similar to S67314 regulatory protein RMS1 - yeast (Saccharomyces cerevisiae) [S.cerevisiae]
546	11949	AA891580	qq, vv		ESTs
550	18490	AA891669	x, nn		ESTs
551	17052	AA891689	oo		ESTs
553	17038	AA891727	ii		ESTs
553	17039	AA891727	a		ESTs
554	3422	AA891732	qq		ESTs
555	23058	AA891733	p, x, General		ESTs
556	11959	AA891735	l		ESTs
557	17693	AA891737	qq, vv		ESTs
558	17256	AA891739	k		ESTs, Weakly similar to F52H3.5.p [Caenorhabditis elegans] [C.elegans]
560	13686	AA891749	rr		ESTs
563	17289	AA891785	kk		ESTs, Weakly similar to A54756 isocitrate dehydrogenase (NADP+) (EC 1.1.1.42), cytosolic - rat [R.norvegicus]
564	22124	AA891790	z, General, kk		ESTs
565	3717	AA891796	j, uu		ESTs
569	4461	AA891814	x		ESTs
570	17311	AA891818	rr		ESTs
571	22841	AA891821	f, General, uu		ESTs
573	14289	AA891838	dd		ESTs, Weakly similar to F10E7.5.p [Caenorhabditis elegans] [C.elegans]
576	2576	AA891884	gg, hh		ESTs
577	11973	AA891891	ff, ww		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
578	17308	AA891902	w		ESTs
578	17309	AA891902	u, bb		ESTs
580	23312	AA891920	f, General		ESTs, Highly similar to A Chain A, Structural Basis For The Recognition Of A Nucleoporin Fg- Repeat By The Ntf2-Like Domain Of Tap P15 Mma Nuclear Export Factor [H.sapiens]
581	11975	AA891928	z, ee, pp, ww		ESTs, Moderately similar to PC4189 TATA-binding protein - mouse (fragment) [M.musculus]
583	19319	AA891937	gg, hh		ESTs, Highly similar to S66254 dolichyl-diphosphooligosaccharide-protein glycotransferase (EC 2.4.1.119) 50K chain - human [H.sapiens]
584	22862	AA891944	x, General		ESTs
585	1159	AA891949	n, z, General, dd		ESTs
586	4474	AA891969	pp		ESTs
587	17374	AA891978	r		ESTs
591	15087	AA892010	j, m, q, ll		ESTs, Weakly similar to T22242 hypothetical protein F45G2.10 - Caenorhabditis elegans [C.elegans]
593	3847	AA892036	s		ESTs, Highly similar to T13964 probable histone deacetylase (EC 3.5.1.-) HDA2 - mouse [M.musculus]
595	9037	AA892066	ss		ESTs
596	22865	AA892083	k, nn, ww		ESTs
597	15891	AA892086	a, qq		ESTs
598	8139	AA892094	ww		ESTs
600	16899	AA892127	u		ESTs
601	14595	AA892128	o, nn, xx		ESTs
602	14330	AA892146	t, y		ESTs
603	11384	AA892149	c, p		ESTs
604	16527	AA892154	o		ESTs
608	15667	AA892248	s		
610	9073	AA892273	nn		ESTs
611	18190	AA892280	bb		ESTs
612	11982	AA892284	vv		ESTs
614	16479	AA892303	d, qq		ESTs, ESTs, Weakly similar to JC5533 scavenger receptor class B type I precursor - rat [R.norvegicus]
615	19181	AA892308	bb, ll, qq, uu		ESTs
619	11980	AA892335	j		ESTs
620	2118	AA892346	rr		ESTs, Moderately similar to anaphase-promoting complex subunit 4 [Homo sapiens] [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
622	15492	AA892376	tt		ESTs
625	16368	AA892396	bb		ESTs
626	4495	AA892399	General		ESTs
629	17439	AA892446	k		ESTs
634	6944	AA892500	c		ESTs
635	14066	AA892504	f, s, pp		ESTs
636	15043	AA892505	General		ESTs, Highly similar to divalent cation tolerant protein CUTA [Homo sapiens] [H.sapiens]
638	8599	AA892522	a, l		ESTs
642	16507	AA892547	m		ESTs, Highly similar to hypothetical protein CL25022 [Homo sapiens] [H.sapiens]
643	17469	AA892549	m, w, General, ss		ESTs
644	19631	AA892550	a		ESTs
645	4507	AA892551	gg, hh		EST
646	11202	AA892554	z		ESTs
647	13574	AA892557	z		ESTs
650	19085	AA892598	rr		ESTs, Weakly similar to putative nucleotide binding protein, estradiol-induced [Homo sapiens] [H.sapiens]
650	19086	AA892598	f, l, rr		ESTs, Weakly similar to putative nucleotide binding protein, estradiol-induced [Homo sapiens] [H.sapiens]
651	16825	AA892602	b, d, f, q, r, z, dd, ee		ESTs
652	2119	AA892607	d		ESTs
653	2121	AA892637	v		ESTs
654	4517	AA892642	a, w		ESTs
657	20088	AA892666	cc		ESTs
659	4523	AA892754	w		ESTs
661	23783	AA892773	t		ESTs
662	4527	AA892774	y		ESTs
664	17421	AA892789	o, bb, ff, ss		ESTs
669	19443	AA892832	pp		ESTs
672	17590	AA892851	pp		ESTs
674	18887	AA892860	ww		ESTs
675	1031	AA892863	r		ESTs
676	7756	AA892864	o		ESTs
677	16366	AA892888	General, rr		EST
677	16367	AA892888	m, q, x, General, ll		EST

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
678	12848	AA892916	l		ESTs, Weakly similar to JC7260 strictosidine synthase (EC 4.3.3.2) homolog 2 - fruit fly ( <i>Drosophila melanogaster</i> ) [D.melanogaster]
681	15956	AA892942	r, u		ESTs
682	14465	AA892950	tt		ESTs, Moderately similar to A Chain A, Crystal Structure Of The Accessory Subunit Of Murine Mitochondrial Polymerase Gamma [M.musculus]
683	8606	AA892959	nn		ESTs, Weakly similar to 1-aminocyclopropane-1-carboxylate synthase [Homo sapiens] [H.sapiens]
687	3131	AA893032	b, h, q		ESTs
688	3858	AA893040	p, v		ESTs
690	17691	AA893088	nn, ss		ESTs
692	16372	AA893160	c		ESTs
695	7096	AA893193	d, q		ESTs
697	13323	AA893212	u		ESTs
698	4243	AA893217	n, w		ESTs
700	11252	AA893225	ww		ESTs
703	10538	AA893239	o	2-hydroxyphytanoyl-CoA lyase	2-hydroxyphytanoyl-CoA lyase
707	3886	AA893289	g		ESTs
709	9082	AA893357	ww		ESTs
711	22890	AA893406	g, gg, hh		ESTs
712	17800	AA893436	kk		ESTs
713	12312	AA893453	General		ESTs
714	21980	AA893454	r		ESTs
716	3444	AA893569	ww		ESTs
717	8277	AA893584	nn		ESTs
718	24350	AA893590	dd		ESTs
719	11984	AA893593	s		ESTs
721	4539	AA893602	y		ESTs
722	4540	AA893603	e		ESTs
723	22149	AA893607	ww		ESTs
723	22150	AA893607	ww		ESTs
724	4541	AA893612	j, ff		ESTs
726	14495	AA893658	l, ii, qq		ESTs
727	17843	AA893659	d		ESTs
729	12028	AA893670	gg, hh, rr		ESTs
730	4547	AA893683	a		ESTs
733	4656	AA893793	u		ESTs
734	4556	AA893811	cc		ESTs
736	17891	AA893885	l, General, kk, xx		ESTs
737	17896	AA893905	j		ESTs
738	4559	AA893933	cc		EST
739	3446	AA893970	s, ww		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
740	10540	AA894027	l, u, General		
741	3149	AA894030	v		ESTs
742	4577	AA894084	d		ESTs
744	17953	AA894090	e, ss		ESTs
747	3453	AA894131	uu, xx		ESTs, Weakly similar to T37473 transcription regulation mediator c-MED6 - <i>Caenorhabditis elegans</i> [C.elegans]
748	14751	AA894168	z, General, ee		ESTs
749	21989	AA894188	f, l, z, General, uu		ESTs
752	2134	AA894212	p		ESTs, Weakly similar to T20899 hypothetical protein F14F3.3 - <i>Caenorhabditis elegans</i> [C.elegans]
753	12041	AA894234	l, j, n, p, kk		ESTs, Weakly similar to YJA4_YEAST HYPOTHETICAL 23.7 KD PROTEIN IN CYR1-OST1 INTERGENIC REGION [S.cerevisiae]
757	18667	AA894282	nn, xx		ESTs
758	17336	AA894297	ww		ESTs
759	18583	AA894312	y, nn		ESTs
760	26051	AA894316	o, ff		ESTs
761	19120	AA894318	u		ESTs
762	1578	AA894338	pp		ESTs, Weakly similar to T24832 hypothetical protein T11F9.11 - <i>Caenorhabditis elegans</i> [C.elegans]
763	22009	AA894340	d		ESTs
767	4107	AA899109	x, ll		ESTs
768	19762	AA899113	xx		ESTs
769	18477	AA899120	pp		
770	4607	AA899152	j		ESTs
771	12203	AA899256	mm		ESTs, Moderately similar to IF4G_HUMAN Eukaryotic translation initiation factor 4 gamma (eIF-4-gamma) (eIF-4G) (eIF4G) (P220) [H.sapiens]
773	4618	AA899301	g		ESTs
774	4196	AA899304	o, rr		ESTs
776	20857	AA899521	General, nn		ESTs, Weakly similar to golgi phosphoprotein 2; golgi membrane protein GP73 [Homo sapiens] [H.sapiens]
777	4641	AA899546	pp		ESTs
779	21354	AA899721	jj, xx		ESTs
780	4095	AA899814	c		ESTs
781	20580	AA899840	k		ESTs
782	24555	AA899865	u		ESTs
783	22060	AA899898	w		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
784	18890	AA899964	o		ESTs
787	4699	AA900033	e		EST
788	4707	AA900090	f, y		ESTs
789	19756	AA900118	c		ESTs
790	8988	AA900148	h		ESTs
791	15007	AA900236	f		ESTs
793	16422	AA900380	m		ESTs
794	4738	AA900401	jj		EST
796	4747	AA900465	u, gg, hh		ESTs
798	4751	AA900481	g		ESTs
799	14527	AA900521	ii, rr		ESTs
800	17368	AA900548	e		ESTs, Weakly similar to T30021 hypothetical protein K08F11.4 - <i>Caenorhabditis elegans</i> [C.elegans]
801	19258	AA900613	General		ESTs
802	22994	AA900649	c, m		ESTs
806	4797	AA900967	s		ESTs
809	4814	AA901012	bb		ESTs
811	11467	AA901069	s		
812	4806	AA901179	ss		ESTs
814	3523	AA901241	xx		ESTs
817	22863	AA901357	ss		ESTs
818	14892	AA923842	ss		ESTs, Highly similar to JC4676 PolII transcription factor TFTIID chain TAFII20 - human [H.sapiens]
819	4881	AA923865	c		ESTs
820	17793	AA923925	l, General, pp		ESTs
821	4883	AA923941	dd		ESTs
822	3963	AA923955	ff, ll		ESTs
825	4896	AA924000	gg, hh		ESTs
826	4900	AA924024	h, l, n		ESTs
827	22883	AA924028	a		ESTs
828	4903	AA924053	s, ii		ESTs
829	4916	AA924130	p		EST
831	4171	AA924144	jj		ESTs, Weakly similar to T28H10.2.p [Caenorhabditis elegans] [C.elegans]
832	22969	AA924151	n, w		ESTs
833	24192	AA924210	vv		ESTs
836	4936	AA924316	k, cc		ESTs, Highly similar to chromosome 11 open reading frame 10 [Homo sapiens] [H.sapiens]
837	22914	AA924335	w		ESTs
838	12344	AA924336	l		ESTs
841	20396	AA924426	v, rr		ESTs, Moderately similar to JC5224 methionine-tRNA ligase (EC 6.1.1.10) - human [H.sapiens]
842	4959	AA924455	k		ESTs



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
845	4978	AA924575	ii		EST
847	18891	AA924598	o, ss		ESTs
848	16989	AA924609	ff		ESTs, Weakly similar to S54052 DOS1 protein - yeast ( <i>Saccharomyces cerevisiae</i> ) [ <i>S.cerevisiae</i> ]
849	4983	AA924615	oo		ESTs
853	5013	AA924756	h, ss		ESTs
854	23030	AA924763	n		ESTs
856	23123	AA924794	mm		ESTs
857	12372	AA924803	c		ESTs
858	4067	AA924813	f, s, z, General		ESTs
859	2888	AA924902	o, vv		ESTs
861	22911	AA924943	General		ESTs
862	23141	AA925019	ww		ESTs
863	21458	AA925049	General, kk		ESTs
865	5079	AA925083	General, kk		ESTs
866	22998	AA925123	s		ESTs
870	18271	AA925267	n, p, General		ESTs
875	5131	AA925341	f		ESTs
876	5134	AA925355	General		ESTs
877	18485	AA925359	tt		ESTs
878	5141	AA925393	ii		Rat mRNA for acetyl-coenzyme A carboxylase (EC 6.4.1.2.) 3' untranslated region
879	5151	AA925439	e		ESTs
880	5152	AA925441	l		ESTs
881	5157	AA925469	q		ESTs
883	5167	AA925529	bb		EST
884	3993	AA925540	f		ESTs
887	16445	AA925557	kk		ESTs
888	4271	AA925603	o, jj		ESTs
889	2690	AA925644	ss		ESTs, Weakly similar to T01D3.5.p [ <i>Caenorhabditis elegans</i> ] [ <i>C.elegans</i> ]
890	5183	AA925662	vv		ESTs
891	5193	AA925693	n		EST
892	5198	AA925710	nn		ESTs
893	5203	AA925741	p		ESTs
894	5215	AA925774	j		ESTs
895	3791	AA925854	l		ESTs
896	23464	AA925876	General		ESTs
897	21573	AA925920	f		ESTs
898	12196	AA925983	k		ESTs, Highly similar to hypothetical protein FLJ20602 [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
899	5242	AA925994	y		ESTs
900	23068	AA926036	c, kk		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
901	23468	AA926067	u		ESTs
902	5255	AA926085	y, ee, tt		ESTs
903	5256	AA926088	bb		ESTs
904	5258	AA926089	h, m, General, dd		ESTs, Highly similar to KIAA0164 gene product [Homo sapiens] [H.sapiens]
905	19555	AA926120	a, h, uu		EST
907	5277	AA926171	v		EST
909	11478	AA926231	General		ESTs
910	16380	AA926303	c		ESTs
912	21827	AA933158	d, f, uu		ESTs, Highly similar to SKIW_HUMAN Helicase SKI2W (Helicase-like protein) (HLP) [H.sapiens]
917	20901	AA942706	nn		ESTs
920	8518	AA942842	h		ESTs
922	23007	AA942874	d		ESTs
923	6615	AA942889	q		ESTs, Weakly similar to Iron-containing alcohol dehydrogenases [Caenorhabditis elegans] [C.elegans]
924	21200	AA942904	ii, ll		ESTs
925	19015	AA943015	z		ESTs
925	19016	AA943015	n, General		ESTs
926	22130	AA943020	gg, hh		ESTs
927	6692	AA943039	ii, rr		ESTs
928	21894	AA943095	f, x, General		ESTs
929	15235	AA943122	pp		ESTs
930	21982	AA943129	h		ESTs
932	22180	AA943202	f		ESTs
933	6218	AA943244	jj		ESTs
934	22075	AA943421	oo		ESTs
935	11695	AA943536	c		ESTs
936	22254	AA943552	gg, hh		ESTs, Weakly similar to T02G5.13.p [Caenorhabditis elegans] [C.elegans]
937	22257	AA943558	j		ESTs, Highly similar to JC4676 PolII transcription factor TFTIID chain TAFII20 - human [H.sapiens]
938	22337	AA943600	gg, hh		ESTs
940	23404	AA943687	tt		ESTs
941	16253	AA943693	q		ESTs
942	21668	AA943752	bb		ESTs
943	12713	AA943866	f, General		ESTs
945	22368	AA944157	t, gg, hh		ESTs
947	22372	AA944176	s, oo		ESTs, Weakly similar to T19334 hypothetical protein R74.1 - Caenorhabditis elegans [C.elegans]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
948	20903	AA944180	tt		ESTs, Highly similar to CKS2_MOUSE CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT 2 (CKS-2) [M.musculus]
950	14426	AA944230	k		ESTs
951	8321	AA944233	ss		ESTs
952	13507	AA944244	ee		ESTs
953	23108	AA944251	rr		ESTs
954	22395	AA944289	d		ESTs
955	9121	AA944301	u		ESTs
956	4511	AA944348	ii		ESTs
957	17901	AA944355	vv		ESTs
958	8870	AA944361	d		ESTs
959	22416	AA944380	o, p, ff		ESTs, Weakly similar to T26648 hypothetical protein Y38A8.1 - Caenorhabditis elegans [C.elegans]
960	8219	AA944384	gg, hh		ESTs
961	22681	AA944413	cc		ESTs
963	16096	AA944469	ss		ESTs
966	22446	AA944530	pp		ESTs, Highly similar to G01430 PL6 protein - human [H.sapiens]
967	11887	AA944561	jj		ESTs, Weakly similar to T31809 hypothetical protein M03F8.2 - Caenorhabditis elegans [C.elegans]
970	23177	AA944628	pp, ss		ESTs
971	12706	AA944740	k		ESTs
973	12140	AA944752	k		ESTs
974	22536	AA944803	t, mm		ESTs
975	22503	AA944823	General		ESTs
978	12306	AA944898	uu		ESTs
979	22519	AA944906	cc		ESTs
981	26084	AA944922	u		ESTs
982	23029	AA944935	n		ESTs
983	16458	AA944956	ii		ESTs
985	22554	AA945076	o		ESTs
986	6929	AA945099	c, f		ESTs, Weakly similar to hypothetical protein FLJ11016 [Homo sapiens] [H.sapiens]
987	22558	AA945123	General, ff, oo		EST
992	14352	AA945181	ee		ESTs
993	12309	AA945193	General, kk		ESTs, Weakly similar to C5MS complement C5 precursor - mouse [M.musculus]
994	22574	AA945268	xx		ESTs
997	22581	AA945432	z, ee		ESTs
998	22076	AA945579	General		ESTs, Weakly similar to D64752 dihydrodipicolinate synthase homolog yagE - Escherichia coli [E.coli]
1000	3674	AA945587	l		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence/Cluster Title
1001	22050	AA945604	l		ESTs
1002	6791	AA945613	d, gg, hh		ESTs
1003	19731	AA945615	n		ESTs
1004	11870	AA945679	pp		ESTs
1004	11871	AA945679	qq, vv		ESTs
1006	22625	AA945704	c		ESTs
1008	22637	AA945727	g		ESTs
1013	22645	AA945765	v		ESTs
1014	16489	AA945784	l		ESTs
1015	22656	AA945818	gg, hh		ESTs
1016	21883	AA945866	oo		ESTs
1018	21214	AA945887	f		ESTs
1019	11256	AA945898	r, ss		ESTs
1021	22689	AA945962	f		ESTs
1022	18524	AA946017	m, General, uu		ESTs
1023	22701	AA946022	u		ESTs
1024	18337	AA946046	ll		ESTs
1025	22712	AA946092	d		ESTs
1027	22729	AA946167	pp		ESTs
1029	23027	AA946264	d		ESTs
1031	22755	AA946323	e		ESTs
1033	18944	AA946391	l		ESTs
1035	22768	AA946411	ff		ESTs
1036	22769	AA946413	u		ESTs
1037	6730	AA946417	c		ESTs
1039	22770	AA946428	pp, vv		ESTs
1040	21968	AA946434	oo		ESTs
1042	10960	AA946440	l, xx		ESTs
1043	21947	AA946451	ii		ESTs, Moderately similar to CGI-105 protein [Homo sapiens] [H.sapiens]
1044	6841	AA946474	h, ss		ESTs
1045	22793	AA946502	nn		ESTs
1046	23749	AA946505	x		ESTs, Weakly similar to YFBYAM phenylalanine-tRNA ligase (EC 6.1.1.20) alpha chain precursor, mitochondrial - yeast (Saccharomyces cerevisiae) [S.cerevisiae]
1047	23750	AA946530	gg, hh		ESTs
1049	23471	AA955162	rr		ESTs
1050	23320	AA955164	q		ESTs
1051	23499	AA955249	General, ff		ESTs
1053	23533	AA955350	k		ESTs
1056	16216	AA955392	z, General, ss, tt		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1058	23557	AA955447	u		ESTs, Highly similar to Werner helicase interacting protein, isoform 1; putative helicase RUVBL [Homo sapiens] [H.sapiens]
1059	23369	AA955523	q		ESTs
1061	23629	AA955552	o		ESTs
1063	18156	AA955573	p		ESTs, Moderately similar to 1804353A transcription factor RAP74 [Homo sapiens] [H.sapiens]
1065	23657	AA955630	r		ESTs
1067	14263	AA955831	x		ESTs, Weakly similar to F28G4.5.p [Caenorhabditis elegans] [C.elegans]
1068	23738	AA955835	m		ESTs
1069	14509	AA955871	qq		ESTs
1069	14510	AA955871	bb, qq		ESTs
1070	24251	AA955887	g, v		ESTs
1071	24259	AA955909	v		ESTs
1073	24288	AA955970	p		EST
1074	19938	AA955980	p		ESTs
1077	24307	AA956035	e		ESTs
1078	22535	AA956140	r, z		ESTs
1081	497	AA956278	ss		ESTs
1086	23799	AA956530	bb		ESTs, Highly similar to hypothetical protein ET [Homo sapiens] [H.sapiens]
1090	23943	AA956943	e		ESTs, Weakly similar to T21344 hypothetical protein F25H2.1 - Caenorhabditis elegans [C.elegans]
1092	23963	AA957139	n		ESTs
1097	24003	AA957311	ww		ESTs
1100	24070	AA957501	o, p		ESTs
1102	24119	AA957683	b, dd		ESTs
1103	24130	AA957723	g		ESTs
1105	24144	AA957766	e, s		ESTs
1107	24167	AA957826	gg, hh		ESTs
1108	24171	AA957835	qq, vv		ESTs
1109	24223	AA957992	g		ESTs
1113	23034	AA963211	oo, pp		ESTs
1114	12833	AA963243	f		ESTs
1115	2049	AA963369	kk, tt		ESTs
1116	20927	AA963449	jj		ESTs
1117	18790	AA963716	o		ESTs
1118	15949	AA963780	c		ESTs
1119	9309	AA963794	m		ESTs
1121	18138	AA963815	g		ESTs
1124	15474	AA964114	l		ESTs
1127	2321	AA964265	ss		ESTs
1128	2355	AA964366	c, gg, hh		ESTs, Highly similar to hypothetical protein FLJ20727 [Homo sapiens] [H.sapiens]
1130	19452	AA964500	ee		EST

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1131	2382	AA964513	m		ESTs
1132	2383	AA964514	r		ESTs
1134	11274	AA964535	x		ESTs
1135	2423	AA964611	ii		ESTs
1137	2433	AA964653	dd		ESTs
1138	3107	AA964687	dd		ESTs
1139	2454	AA964740	ss		ESTs
1140	2459	AA964755	t		ESTs
1141	12836	AA964777	g		ESTs
1142	11324	AA964832	f		ESTs
1143	14622	AA964868	w		ESTs
1144	2486	AA964871	vv		ESTs
1146	21390	AA964988	f, pp		ESTs
1147	2528	AA964990	a, uu		ESTs, Weakly similar to S46683 hypothetical protein YHR189w - yeast ( <i>Saccharomyces cerevisiae</i> ) [ <i>S.cerevisiae</i> ]
1148	2691	AA965075	ff		ESTs
1149	12622	AA965077	w		ESTs
1150	2563	AA965113	f		ESTs, Weakly similar to Y54E5A.5.p [ <i>Caenorhabditis elegans</i> ] [ <i>C.elegans</i> ]
1151	2568	AA965120	xx		ESTs, Weakly similar to S48963 hypothetical protein YHR121w - yeast ( <i>Saccharomyces cerevisiae</i> ) [ <i>S.cerevisiae</i> ]
1152	2571	AA965128	g		ESTs
1154	12572	AA965176	e		ESTs
1156	16680	AA965190	vv		ESTs
1157	2603	AA965213	w		ESTs
1158	2141	AA965219	w, x, dd		ESTs
1159	2610	AA965251	w		ESTs
1160	15907	AA996422	j		ESTs
1162	2826	AA996523	vv		ESTs
1163	2860	AA996581	ii		ESTs
1164	2787	AA996688	x		ESTs
1166	2921	AA996814	k		ESTs
1168	2930	AA996846	pp		ESTs
1171	12591	AA996927	ii, rr		ESTs
1172	2954	AA996933	c, u		ESTs
1174	2964	AA996954	s		ESTs
1175	16496	AA996955	a		ESTs
1176	2978	AA996974	dd		ESTs, Highly similar to 1802387B transcription factor IIE:SUBUNIT=small 34kD [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
1178	20694	AA997048	bb		ESTs
1179	3087	AA997062	ii		ESTs
1180	3477	AA997096	pp		ESTs
1181	3145	AA997237	jj		ESTs
1182	3163	AA997297	uu		ESTs
1183	3005	AA997338	c		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name		Unigene Sequence Cluster Title	
1184	19249	AA997342	b, j, x, dd			Rattus norvegicus Ratsg2 mRNA, complete cds	
1186	14582	AA997412	mm			ESTs	
1187	3238	AA997555	b			ESTs	
1188	12616	AA997599	p			ESTs	
1189	8173	AA997699	ss, tt			ESTs	
1192	3267	AA997788	pp			ESTs	
1195	3290	AA997883	f, l, pp			ESTs	
1196	26114	AA997904	ff				
1197	3302	AA997905	b, l			ESTs	
1198	3307	AA997928	f			EST	
1199	3317	AA997958	bb			ESTs	
1200	11941	AA997980	n			ESTs	
1201	3326	AA997990	x			ESTs	
1204	26115	AA998084	cc			ESTs	
1205	3362	AA998092	y			ESTs	
1209	3375	AA998132	r			EST	
1211	16533	AA998174	g, o			ESTs	
1212	3730	AA998234	h, General, qq			ESTs	
1214	3766	AA998325	e			ESTs	
1215	3784	AA998387	ss			ESTs	
1217	19623	AA998422	ii, uu			EST	
1217	19624	AA998422	y			EST	
1220	17009	AA998506	ll			ESTs	
1222	3576	AA998540	b			ESTs	
4485	26119	AA998576	kk, tt				
1224	3586	AA998579	pp			ESTs	
1226	3411	AA998638	b, General			ESTs	
1227	3612	AA998673	w			ESTs	
1230	3641	AA998771	r			ESTs	
1232	3133	AA998893	w			ESTs	
1234	3683	AA998968	k			ESTs	
1236	3690	AA999006	e			ESTs	
1237	3708	AA999060	w			EST	
1239	3720	AA999138	ee, ww			ESTs	
1240	3079	AA999169	w, General			ESTs	
1242	12602	AA999183	g			ESTs	
1243	25137	AB005540	ss, ww				
1253	3562	AB020504	r, gg, hh	PMF32 protein		PMF32 protein	
1261	25165	AF022952	jj	vascular endothelial growth factor B			
1262	20283	AF029357	x				
1263	25168	AF030050	s, cc	replication factor C			
1264	11210	AF030087	q, y, z, General, tt			ESTs	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1264	25170	AF030087	f, z, tt		
1267	4294	AF034898	y		
1268	20188	AF034900	cc		
1275	19212	AF055292	j, mm		
1277	25195	AF061945	g		
1279	25196	AF064856	g, k		
1280	18615	AF074608	n, ee		
1282	25203	AF079873	t, ll, mm, rr	zinc finger protein 162	
1290	14313	AI007626	h, General, gg, hh		ESTs
1291	2513	AI007642	c		ESTs
1293	22746	AI007672	a		ESTs
1296	3814	AI007761	ii		ESTs
1297	1804	AI007824	r		
1297	1805	AI007824	r		
1300	6804	AI007877	cc		ESTs
1301	14361	AI007924	e		ESTs
1302	4039	AI007963	x		ESTs
1306	3806	AI008119	r		ESTs
1307	4068	AI008316	bb		ESTs
1308	13009	AI008380	y		ESTs
1309	4077	AI008384	gg, hh		ESTs
1311	14737	AI008416	ss		ESTs
1312	17820	AI008698	oo		ESTs
1313	12438	AI008736	ss		ESTs
1317	3365	AI008919	ff		ESTs
1318	6818	AI008931	f		ESTs
1319	4120	AI008975	mm		ESTs, Weakly similar to S14828 nidogen - rat (fragment) [R.norvegicus]
1320	4951	AI009026	g		ESTs
1321	24665	AI009098	q		ESTs
1323	15660	AI009141	u		ESTs
1324	23252	AI009170	ll		ESTs
1327	2506	AI009341	f		ESTs
1328	7524	AI009350	b		ESTs, Weakly similar to C37H5.3.p [Caenorhabditis elegans] [C.elegans]
1329	6382	AI009362	y, z, ee		ESTs
1330	2245	AI009363	tt		ESTs
1331	3356	AI009371	p		ESTs
1334	8164	AI009444	s, z, ee		ESTs, Weakly similar to 2121426A modifier of rudimentary-p1 gene [Drosophila melanogaster] [D.melanogaster]
1335	2267	AI009450	m, x, dd, qq		ESTs, Weakly similar to T24151 hypothetical protein R10H10.1 - Caenorhabditis elegans [C.elegans]
1342	3991	AI009603	nn		ESTs
1343	21447	AI009608	ww		ESTs
1344	3923	AI009647	f		ESTs



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1346	6836	AI009700	k		ESTs
1347	17568	AI009703	gg, hh		ESTs
1348	6838	AI009709	bb		ESTs
1349	16490	AI009710	pp		ESTs
1351	15089	AI009752	tt		ESTs
1353	6843	AI009768	k		ESTs
1355	7043	AI009796	oo		ESTs, Weakly similar to F19B6.1b.p [Caenorhabditis elegans] [C.elegans]
1356	22058	AI009800	d		ESTs
1357	7224	AI009820	p		ESTs
1358	22619	AI009825	s		ESTs
1359	26132	AI009950	l		EST
1360	18505	AI010034	d, n		ESTs
1361	6873	AI010055	gg, hh		ESTs
1364	15258	AI010104	vv		ESTs
1366	4177	AI010123	General		ESTs
1367	12717	AI010250	v		ESTs
1369	6897	AI010275	kk, tt		ESTs
1370	14455	AI010277	n, kk		ESTs
1371	12095	AI010339	o		ESTs, Weakly similar to C16C10.11.p [Caenorhabditis elegans] [C.elegans]
1372	15180	AI010354	l		ESTs
1374	6916	AI010430	mm		ESTs
1377	3139	AI010618	w		ESTs
1379	6946	AI010642	gg, hh, jj		ESTs
1380	11227	AI010660	j		ESTs
1381	17761	AI010662	z		ESTs, Highly similar to S37488 gene T10 protein - mouse [M.musculus]
1382	22884	AI010755	uu		ESTs
1383	12726	AI010758	ss		ESTs
1384	6972	AI010763	gg, hh		ESTs
1385	8966	AI010944	f, ww		ESTs, Weakly similar to R08B4.3.p [Caenorhabditis elegans] [C.elegans]
1386	3597	AI010951	d, nn		ESTs
1389	6044	AI011285	pp		ESTs
1390	14049	AI011306	ll		ESTs, Weakly similar to hypothetical protein PP1226 [Homo sapiens] [H.sapiens]
1391	3737	AI011322	w		ESTs
1392	14393	AI011367	ff		ESTs, Weakly similar to T13387 hypothetical protein 115C2.8 - fruit fly (Drosophila melanogaster) [D.melanogaster]
1394	13386	AI011456	bb		ESTs
1395	3934	AI011510	General		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1396	735	AI011560	ll		ESTs, Weakly similar to B Chain B, Solution Structure Of The C-Terminal Negative Regulatory Domain Of P53 In A Complex With Ca <sup>2+</sup> -Bound S100b(Bb) [R.norvegicus]
1397	21861	AI011571	n, ss		ESTs
1399	14375	AI011606	pp		ESTs
1403	16234	AI011716	f		ESTs
1405	2388	AI011806	ee		ESTs, Weakly similar to T31718 hypothetical protein F44E7.9 - Caenorhabditis elegans [C.elegans]
1407	8675	AI011835	ii		ESTs
1408	16528	AI011878	u		ESTs
1409	18154	AI011879	jj		ESTs
1411	4205	AI011982	f		ESTs
1412	24021	AI012027	f		ESTs, Moderately similar to CA16_MOUSE Collagen alpha 1(VI) chain precursor [M.musculus]
1414	17407	AI012145	xx		ESTs
1416	22688	AI012222	d, w, General, nn		ESTs
1417	3436	AI012226	cc, qq		ESTs
1418	3981	AI012235	x, rr		ESTs
1419	23808	AI012242	a		ESTs, Moderately similar to hypothetical protein FLJ14981 [Homo sapiens] [H.sapiens]
1420	17738	AI012244	u		ESTs, Weakly similar to DY3.6.p [Caenorhabditis elegans] [C.elegans]
1421	24190	AI012246	d		ESTs
1423	24200	AI012356	y		ESTs
1424	17592	AI012382	x		ESTs
1425	7123	AI012448	o		ESTs
1430	3493	AI012590	General, kk		ESTs
1431	19032	AI012612	ll		ESTs
1435	21409	AI012637	f, pp		ESTs
1436	7142	AI012689	ee		ESTs
1438	7171	AI012761	pp		ESTs
1440	7178	AI012812	jj		ESTs
1441	7179	AI012822	v		EST
1442	23990	AI012945	gg, hh		ESTs
1444	14033	AI012979	l		ESTs
1445	17555	AI012991	k		ESTs
1446	10641	AI012995	p, x		ESTs
1447	17054	AI013031	k		ESTs, Moderately similar to N4AM_HUMAN NADH-ubiquinone oxidoreductase subunit B14.5a (Complex I-B14.5a) (CI-B14.5a) [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1448	7199	AI013044	ff		ESTs
1449	3191	AI013075	z, dd		ESTs, Moderately similar to hypothetical protein FLJ14621 [Homo sapiens] [H.sapiens]
1450	14500	AI013083	kk, qq		ESTs
1451	11554	AI013110	t		ESTs
1452	3613	AI013120	gg, hh		ESTs
1453	15129	AI013204	t		ESTs
1457	7240	AI013305	cc		ESTs
1458	3088	AI013369	l		ESTs
1459	7256	AI013440	ii		ESTs
1466	9551	AI013558	kk		ESTs
1467	2101	AI013667	t		ESTs
1468	7281	AI013755	c		ESTs, Weakly similar to Human mRNA KIAA0066 predicted protein like [Caenorhabditis elegans] [C.elegans]
1469	21667	AI013773	oo		ESTs
1470	26151	AI013774	j		ESTs
1471	6786	AI013775	v		ESTs
1473	7289	AI013801	t, ee		ESTs
1475	23176	AI013847	e		ESTs
1477	12802	AI013865	w, General		ESTs
1478	3260	AI013875	o, ee		ESTs
1479	2708	AI013882	t, mm, xx		ESTs, Highly similar to S53612 gene MSSP-2 protein - human [H.sapiens]
1481	21454	AI013888	l		ESTs
1482	21074	AI013890	ll		ESTs
1483	6508	AI013900	ii		ESTs, Highly similar to muscle specific gene [Homo sapiens] [H.sapiens]
1484	18962	AI013918	o	fasting-inducible integral membrane protein TM6P1	fasting-inducible integral membrane protein TM6P1
1485	18977	AI013937	d	endoplasmic reticulum protein 29	ESTs
1487	15936	AI013993	c		ESTs
1488	7288	AI014022	t, General		ESTs
1489	11178	AI014076	n		ESTs, Weakly similar to nitrophenylphosphatase [Caenorhabditis elegans] [C.elegans]
1490	15495	AI014094	j		ESTs, Weakly similar to DPSD_CAEEL Putative phosphatidylserine decarboxylase proenzyme [C.elegans]
1491	8136	AI014116	ww		ESTs
1492	24315	AI014132	z, General		ESTs
1495	14406	AI028849	ee		ESTs
1497	18574	AI028997	p, gg, hh		ESTs, Weakly similar to T20120 hypothetical protein C50F4.14 - Caenorhabditis elegans [C.elegans]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1498	7357	AI029007	ii		ESTs, Weakly similar to F10B5.8.p [Caenorhabditis elegans] [C.elegans]
1499	21933	AI029057	ss		ESTs
1500	7374	AI029096	qq		ESTs
1501	3311	AI029116	r		ESTs
1502	22185	AI029229	k		ESTs, Highly similar to 2024339A cleavage stimulation factor [Homo sapiens] [H.sapiens]
1503	7415	AI029274	ii		ESTs
1506	19296	AI029415	k		EST
1507	13573	AI029443	v		ESTs
1509	2668	AI029455	uu		ESTs
1512	7503	AI029649	l, r, kk		EST
1513	13674	AI029675	gg, hh		ESTs
1514	7521	AI029713	d		ESTs
1516	16705	AI029858	xx		ESTs
1518	7582	AI029996	ss		ESTs
1519	7583	AI030001	oo		EST
1520	7586	AI030024	uu		ESTs
1521	10665	AI030067	h, nn		ESTs
1522	17955	AI030069	gg, hh		ESTs
1523	14492	AI030091	y		ESTs
1524	7597	AI030118	s		ESTs
1525	7618	AI030172	qq		ESTs
1526	7003	AI030259	General		ESTs, Moderately similar to hypothetical protein MGC12904 [Homo sapiens] [H.sapiens]
1527	7658	AI030348	ss		ESTs
1528	7664	AI030376	gg, hh		ESTs
1529	7685	AI030465	qq		ESTs
1530	17419	AI030524	p		ESTs
1531	7724	AI030643	p		ESTs
1532	7741	AI030695	nn		ESTs
1533	7745	AI030706	p, ff		ESTs
1534	7748	AI030731	gg, hh		ESTs
1535	7751	AI030750	d, kk		ESTs
1536	7755	AI030771	n		ESTs
1537	13286	AI030790	x, General, kk		ESTs
1538	21172	AI030799	ll		ESTs
1539	17552	AI030833	cc		ESTs
1540	2911	AI030835	m, General, ff		ESTs
1541	10750	AI030845	f		ESTs
1542	7781	AI030869	x		EST
1543	20101	AI030877	rr		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1544	7793	AI030907	oo		ESTs, Weakly similar to short-chain alcohol dehydrogenase [Caenorhabditis elegans] [C.elegans]
1545	19561	AI030921	u, y		EST
1547	10767	AI030989	r		EST
1549	7831	AI031035	j		ESTs
1551	5350	AI043611	f		ESTs
1552	4335	AI043630	w		ESTs, Moderately similar to hypothetical protein FLJ23251 [Homo sapiens] [H.sapiens]
1554	9180	AI043694	ii, xx		ESTs, Weakly similar to T27134 hypothetical protein Y53C12B.2 - Caenorhabditis elegans [C.elegans]
1555	7873	AI043709	u		ESTs
1556	7584	AI043724	n, q		ESTs
1557	20102	AI043753	ii, rr		ESTs
1558	7904	AI043806	cc		ESTs
1562	7917	AI043877	gg, hh		ESTs
1563	3598	AI043901	r		ESTs
1564	7926	AI043913	m		ESTs
1567	7963	AI044045	qq		ESTs
1568	9828	AI044061	k		EST
1570	19563	AI044064	j		EST
1573	5781	AI044263	f, tt		ESTs
1574	5433	AI044271	gg, hh		ESTs
1575	16389	AI044323	c, ff		ESTs
1576	5453	AI044328	u		ESTs
1577	16027	AI044416	s, oo		ESTs
1578	5494	AI044425	p, ff		ESTs
1579	9859	AI044429	ii		EST
1580	10829	AI044467	e		EST
1581	5495	AI044476	j		ESTs
1582	9871	AI044530	b		ESTs
1584	9889	AI044621	uu		ESTs
1586	3827	AI044721	oo		ESTs
1587	9906	AI044759	u		ESTs
1588	5476	AI044791	cc		ESTs
1592	5615	AI044861	m, oo		ESTs
1593	6492	AI044862	u		ESTs
1594	5630	AI044869	f		ESTs
1595	6496	AI044887	gg, hh		ESTs
1597	9927	AI044932	rr		ESTs
1598	4047	AI044947	General		ESTs
1599	5692	AI045092	e		ESTs
1600	19569	AI045120	s		EST
1601	5709	AI045148	k		EST
1604	9968	AI045182	e		ESTs
1606	20524	AI045201	y		ESTs
1607	9977	AI045253	bb		EST

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1609	5759	AI045330	e		ESTs
1611	9983	AI045337	p		ESTs
1612	18932	AI045451	p, General		ESTs
1614	16752	AI045475	h, vv		ESTs
1615	5809	AI045488	x		EST
1616	5810	AI045492	gg, hh		ESTs
1617	7994	AI045521	pp		ESTs
1618	21971	AI045545	ll		ESTs
1619	11767	AI045556	g		ESTs
1620	19535	AI045572	j		EST
1621	5834	AI045577	v		ESTs
1622	5836	AI045584	jj		ESTs
1624	10535	AI045602	ii		ESTs
1625	17755	AI045608	w, General		ESTs
4486	26173	AI045626	x		
1627	10020	AI045632	f		ESTs
1628	12825	AI045672	h		ESTs, Weakly similar to T25443 hypothetical protein B0261.4 - <i>Caenorhabditis elegans</i> [C.elegans]
1629	10024	AI045704	y		ESTs
1630	5859	AI045712	qq		ESTs
1632	5870	AI045762	ii		ESTs
1634	5878	AI045774	j		ESTs
1636	5895	AI045850	jj		ESTs
1637	5902	AI045871	General		ESTs
1638	23650	AI045908	r		ESTs
1639	5327	AI045965	c		ESTs
1640	11774	AI058340	e		ESTs
1641	8020	AI058348	c, f		ESTs
1642	6828	AI058359	l, General, qq		ESTs, Weakly similar to T46465 hypothetical protein DKFZp434A0530.1 - human [H.sapiens]
1643	8025	AI058365	j, ee, qq		ESTs, Moderately similar to uncharacterized bone marrow protein BM033 [Homo sapiens] [H.sapiens]
1645	10063	AI058399	qq		EST
1646	10065	AI058416	mm		EST
1648	10068	AI058492	f		ESTs
1649	8177	AI058603	s		ESTs
1651	8110	AI058665	ll		ESTs
1653	10090	AI058715	p		EST
1654	10093	AI058746	qq		ESTs
1655	8143	AI058759	y, tt		ESTs
1656	18659	AI058762	ff, gg, hh		ESTs
1657	10096	AI058772	e		EST
1658	10100	AI058796	j		ESTs
1659	10106	AI058851	oo		EST

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1660	4427	AI058859	bb		ESTs
1661	10110	AI058863	oo		EST
1663	8577	AI058913	bb		ESTs, Highly similar to PYR1_HUMAN CAD protein [Includes: Glutamine-dependent carbamoyl-phosphate synthase ; Aspartate carbamoyltransferase ; Dihydroorotase ] [H.sapiens]
1664	10123	AI058933	v		ESTs
1665	8191	AI058960	u		ESTs
1668	8224	AI059095	r		ESTs
1669	8227	AI059103	rr		ESTs
1671	10319	AI059234	h		ESTs
1672	8265	AI059246	pp		EST
1673	26178	AI059258	ss		
1674	8274	AI059270	y		ESTs
1675	8275	AI059277	j		ESTs
1676	11798	AI059337	e		ESTs
1678	8312	AI059378	cc		ESTs
1679	8314	AI059386	General, nn		ESTs
1680	8322	AI059408	w		ESTs, Weakly similar to F09G2.4.p [Caenorhabditis elegans] [C.elegans]
1683	8344	AI059511	jj		EST
1685	7970	AI059549	n		ESTs
1687	8365	AI059574	bb		ESTs
1688	19230	AI059604	t		ESTs
1689	3345	AI059622	s		ESTs
1690	8395	AI059662	m		ESTs
1691	10233	AI059664	d		ESTs
1692	5272	AI059681	e		ESTs
1693	8707	AI059707	y		ESTs
1694	10246	AI059709	cc		ESTs
1695	16779	AI059883	g		EST
1696	8472	AI059885	n		ESTs
1697	10281	AI059947	General, ee		ESTs
1699	8616	AI059964	gg, hh		ESTs
1701	8500	AI059983	b, General		ESTs
1702	8512	AI060028	r		ESTs
1704	8522	AI060071	r		ESTs
1705	21142	AI060130	ss		ESTs, Highly similar to hypothetical protein FLJ22357 similar to epidermal growth factor receptor-related protein [Homo sapiens] [H.sapiens]
1707	10315	AI060178	j, r, s		ESTs
1708	10318	AI060198	gg, hh		ESTs
1711	8580	AI060314	g		EST

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1712	8715	AI069920	y, General		ESTs
1713	5440	AI069922	s		ESTs
1714	10367	AI070033	r, v		ESTs
1716	6343	AI070108	m		ESTs
1717	17767	AI070128	pp		ESTs
1719	7743	AI070233	v		ESTs
1720	11819	AI070270	ff		ESTs
1721	10393	AI070274	cc		EST
1722	16905	AI070275	q		ESTs
1723	10396	AI070294	dd		ESTs
1724	16492	AI070315	ss		ESTs, Weakly similar to NFC2_MOUSE Nuclear factor of activated T-cells, cytoplasmic 2 (T cell transcription factor NFAT1) (NFAT pre-existing subunit) (NF-ATp) [M.musculus]
1725	8874	AI070336	t, mm		ESTs
1727	14424	AI070421	w		ESTs
1728	8926	AI070516	a		ESTs
1730	10446	AI070638	q		ESTs
1731	13454	AI070712	uu		ESTs
1732	10459	AI070724	j		EST
1734	21208	AI070806	dd, oo		ESTs, Weakly similar to Y53C12A.3.p [Caenorhabditis elegans] [C.elegans]
1735	9004	AI070850	cc		ESTs
1736	11834	AI070973	gg, hh		ESTs
1737	9039	AI070982	k		ESTs
1738	9040	AI070986	ll		ESTs
1739	8720	AI071023	gg, hh		ESTs, Weakly similar to YG5I_YEAST Hypothetical 29.9 kDa protein in APL6-MES1 intergenic region [S.cerevisiae]
1740	10998	AI071109	ee		EST
1743	21085	AI071206	u, ww		ESTs
1744	9605	AI071243	d		ESTs
1745	18191	AI071244	ww		ESTs
1746	9607	AI071247	ww		ESTs, Weakly similar to T27095 hypothetical protein Y51H1A.4 - Caenorhabditis elegans [C.elegans]
1748	8049	AI071278	y		ESTs
1750	11028	AI071317	d, nn		ESTs
1751	11031	AI071371	gg, hh		ESTs
1752	22676	AI071458	dd		ESTs
1754	11052	AI071492	cc		ESTs
1755	3867	AI071504	k		ESTs
1756	8086	AI071526	u		ESTs
1758	5695	AI071566	s		ESTs, Weakly similar to SYBSR threonine synthase (EC 4.2.99.2) - yeast (Saccharomyces cerevisiae) [S.cerevisiae]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1759	16802	AI071570	vv		EST, Moderately similar to BBMS complement factor B precursor - mouse [M.musculus]
1760	11066	AI071602	bb		ESTs
1763	9702	AI071666	v		ESTs
1766	26187	AI071696	gg, hh		
1767	17387	AI071702	f		ESTs
1768	11088	AI071703	n, gg, hh		ESTs
1769	9721	AI071736	e		ESTs
1770	9747	AI071794	k		ESTs
1772	11127	AI071868	v, x, ll		EST
1774	11135	AI071911	d		ESTs
1776	13916	AI071972	l, bb		ESTs
1777	9800	AI072014	qq		ESTs, Weakly similar to U2af50-P1 [Drosophila melanogaster] [D.melanogaster]
1778	9806	AI072036	ww, xx		ESTs
1779	9808	AI072050	z, ee		ESTs
1780	13426	AI072081	v, gg, hh		ESTs
1781	9196	AI072121	o		ESTs, Weakly similar to 2118405G hexaprenyl pyrophosphate synthetase [Saccharomyces cerevisiae] [S.cerevisiae]
1782	9211	AI072164	uu		ESTs
1783	10842	AI072166	gg, hh		EST
1784	7516	AI072183	tt		ESTs
1785	3801	AI072257	k, mm		ESTs, Weakly similar to T18297 zinc-finger protein FOG-2 - mouse [M.musculus]
1786	8081	AI072294	pp		ESTs
1787	9168	AI072299	f, General		ESTs
1790	17680	AI072403	p		ESTs, Highly similar to S43484 heterogeneous nuclear ribonucleoprotein F - human [H.sapiens]
1791	9271	AI072405	y		ESTs
1792	9277	AI072424	h, p		ESTs
1793	10869	AI072425	y		ESTs
1796	10879	AI072476	General		ESTs
1797	9312	AI072550	x, General		ESTs
1798	23953	AI072558	gg, hh		ESTs
1799	26190	AI072578	s		
1800	10902	AI072603	x		ESTs
1801	9325	AI072617	u		ESTs
1803	10920	AI072748	m, General		ESTs
1804	9384	AI072751	gg, hh		ESTs
1805	10923	AI072793	nn		ESTs
1807	9419	AI072877	y		ESTs
1808	10929	AI072881	pp		ESTs
1810	21885	AI072886	a		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1812	9432	AI072914	w		EST
1813	10934	AI072950	l		ESTs
1814	3986	AI072957	c, bb		ESTs
1815	10921	AI073003	kk		ESTs
1816	10941	AI073004	x		EST
1818	9475	AI073059	h, p, ss		ESTs
1819	7074	AI073086	General, ll		ESTs
1820	9490	AI073118	ss		ESTs
1821	22532	AI073178	v		ESTs
1822	17190	AI073193	ee		ESTs
1823	9510	AI073208	bb		ESTs
1824	6996	AI073210	m		ESTs
1827	19371	AI100841	m		ESTs
1828	13657	AI101026	v		ESTs, Highly similar to JE0326 peroxin Pex11p Isoform, Pex11pbeta - human [H.sapiens]
1830	22098	AI101116	cc		ESTs
1831	21913	AI101181	d		ESTs
1833	2220	AI101258	k		ESTs
1834	5491	AI101331	cc, qq		ESTs
1835	6799	AI101380	u, nn		ESTs
1836	4401	AI101381	x, pp, ss		ESTs
1837	7365	AI101395	j		ESTs
1838	2188	AI101401	tt		ESTs
1839	20473	AI101441	ss		ESTs
1841	21747	AI101492	c, m, z, ee		ESTs
1842	18212	AI101494	g		ESTs
1843	13382	AI101527	s		ESTs, Highly similar to S01700 signal recognition particle 19K protein - human [H.sapiens]
1844	4650	AI101582	m		ESTs, Weakly similar to W06D4.4.p [Caenorhabditis elegans] [C.elegans]
1845	5074	AI101695	c, ww		ESTs
1846	13265	AI101708	f		ESTs
1847	13661	AI101763	ij		ESTs
1848	4847	AI101818	v		ESTs
1849	23104	AI101874	p, gg, hh		ESTs
1850	4119	AI101901	oo		ESTs
1853	11719	AI102042	ff, mm		ESTs
1855	21592	AI102065	u		ESTs
1856	4001	AI102070	w		ESTs
1857	18565	AI102073	q, r		ESTs
1858	2093	AI102097	f, j, y		ESTs
1859	6223	AI102152	ee		ESTs
1860	14902	AI102191	nn		ESTs
1861	22310	AI102194	m		ESTs
1862	14284	AI102286	j		ESTs
1863	8501	AI102429	y		ESTs
1865	17632	AI102472	p, bb		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1867	21056	AI102574	General		ESTs
1868	24386	AI102588	ff		ESTs, Weakly similar to T21325 hypothetical protein F25B3.6 - <i>Caenorhabditis elegans</i> [ <i>C.elegans</i> ]
1870	17335	AI102634	oo, tt		ESTs, Weakly similar to W06B4.2.p [ <i>Caenorhabditis elegans</i> ] [ <i>C.elegans</i> ]
1872	24338	AI102670	q, z, General		ESTs
1876	22171	AI102734	y		ESTs, Moderately similar to JC4965 elk1 protein - mouse [ <i>M.musculus</i> ]
1877	6796	AI102753	l, y		ESTs
1878	22857	AI102768	j		ESTs
1879	18777	AI102788	m, oo		ESTs
1880	11228	AI102871	e, ll, pp		ESTs
1881	22628	AI102955	qq		ESTs
1882	24229	AI102972	b, q, vv		ESTs
1883	4744	AI103008	ww		ESTs
1884	10659	AI103059	ii		ESTs
1887	3584	AI103106	v, bb, ww		ESTs
1888	13298	AI103143	e		ESTs
1891	3475	AI103245	a		ESTs, Weakly similar to F13B9.8.p [ <i>Caenorhabditis elegans</i> ] [ <i>C.elegans</i> ]
1892	23619	AI103314	f		ESTs
1893	12394	AI103377	tt		ESTs
1897	4355	AI103410	qq, vv		ESTs
1898	15280	AI103428	d, ll		ESTs
1899	17168	AI103441	j, t, ll		ESTs
1900	6476	AI103456	y		ESTs
1901	11659	AI103480	gg, hh		ESTs
1903	5309	AI103521	g		ESTs, Weakly similar to BEM-1/BUD5 suppressor-like [ <i>Caenorhabditis elegans</i> ] [ <i>C.elegans</i> ]
1904	20918	AI103552	y		ESTs
1905	21579	AI103572	kk, tt		ESTs
1906	6699	AI103589	g		ESTs
1910	2752	AI103641	General, kk		ESTs
1911	4856	AI103708	d		ESTs
1914	22885	AI103828	t, w, nn, tt		ESTs
1915	15946	AI103834	j		ESTs, Moderately similar to CGI-118 protein [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
1916	22587	AI103848	h		ESTs
1917	23067	AI103851	mm		ESTs, Highly similar to 13kDa differentiation-associated protein; NADH: ubiquinone oxidoreductase [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
1920	7434	AI103954	pp		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1921	16079	AI103960	e		ESTs, Highly similar to JE0092 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) flavoprotein 1 precursor - human [H.sapiens]
1924	3413	AI104127	l		ESTs
1925	9294	AI104152	ww		ESTs
1926	17440	AI104231	v		ESTs, Weakly similar to BWMSV4 Mov-34 protein - mouse [M.musculus]
1927	16569	AI104253	w		ESTs, Weakly similar to GL004 protein [Homo sapiens] [H.sapiens]
1929	22833	AI104258	l, pp		ESTs
1930	5907	AI104261	ll		ESTs
1932	15416	AI104340	General		ESTs
1933	10991	AI104342	u		ESTs
1934	3291	AI104355	j		ESTs
1939	3729	AI104488	j		ESTs
1941	18235	AI104523	d, p		ESTs
1943	16673	AI104608	d, ww		ESTs
1945	2484	AI104675	f		ESTs
1947	17528	AI104753	u		ESTs, Moderately similar to hypothetical protein FLJ20758 [Homo sapiens] [H.sapiens]
1948	12798	AI104773	gg, hh		ESTs, Highly similar to hypothetical protein KIAA1695; hypothetical protein FLJ22297; KIAA1695 protein [Homo sapiens] [H.sapiens]
1949	15377	AI104821	n, gg, hh		ESTs
1950	12731	AI104846	p, y		ESTs
1951	11233	AI104864	ff		ESTs, Moderately similar to hypothetical protein MGC3037 [Homo sapiens] [H.sapiens]
1952	6528	AI104878	ww		ESTs
1954	6205	AI104907	c	TEMO	TEMO
1962	18756	AI105153	pp, rr		ESTs
1963	17768	AI105196	q, dd, oo		ESTs
1964	22600	AI105309	v, w		ESTs
1965	7049	AI105371	t		ESTs
1966	17221	AI105429	ii		ESTs
1969	11179	AI111559	ss		ESTs
1970	4478	AI111599	d, ii, kk		ESTs
1970	4479	AI111599	General, ii		ESTs
1971	7359	AI111683	a		ESTs
1972	8305	AI111695	f, pp		ESTs
1973	3309	AI111725	j		ESTs
1974	9500	AI111798	m		ESTs
1978	12926	AI111975	tt		ESTs
1980	12908	AI112043	a		ESTs
1981	22522	AI112092	y		ESTs
1982	8775	AI112098	q		ESTs

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1983	14560	AI112111	pp, lt		ESTs
1984	12916	AI112171	a, x		ESTs
1985	7382	AI112208	s		ESTs
1988	8048	AI112338	l, pp		ESTs
1991	22744	AI112512	x		ESTs
1992	24131	AI112888	ww		ESTs
1993	12965	AI112926	l		ESTs, Moderately similar to ALKB_HUMAN Alkylated DNA repair protein alkB homolog [H.sapiens]
1994	14512	AI112964	qq		ESTs
1996	18105	AI112992	ww		ESTs
1998	6555	AI113020	ss		ESTs
1999	8672	AI113029	h		ESTs
2000	11698	AI113244	xx		ESTs
2001	11574	AI113288	l		ESTs
2002	6446	AI136157	gg, hh		ESTs
2003	13020	AI136338	ii		ESTs, Weakly similar to S36152 MHC class III histocompatibility antigen HLA-B-associated protein 2 [similarity] - human [H.sapiens]
2005	17253	AI136523	d		ESTs
2009	13044	AI136694	u		ESTs
2010	11301	AI136709	j		ESTs
2011	13046	AI136711	k		ESTs
2012	17668	AI136744	nn		ESTs, Weakly similar to S44904 ZK652.9 protein - Caenorhabditis elegans [C.elegans]
2018	14243	AI137123	ee		ESTs
2021	9404	AI137259	jj		ESTs
2022	3542	AI137275	r		ESTs
2024	23526	AI137337	l		ESTs, Weakly similar to T28052 hypothetical protein ZK858.7 - Caenorhabditis elegans [C.elegans]
2025	9192	AI137345	s, vv		ESTs
2026	17451	AI137356	gg, hh		ESTs, Highly similar to S68692 deoxyhypusine synthase (EC 1.1.1.249) [validated] - human [H.sapiens]
2029	21164	AI137488	o, y		ESTs
2035	17483	AI137897	d		ESTs
2036	14459	AI137930	ii		ESTs
2037	12356	AI137931	mm		ESTs
2038	13153	AI137935	s, u		ESTs
2039	21504	AI137941	c, d, y		ESTs
2040	23447	AI137991	nn		ESTs
2043	2264	AI144741	tt		ESTs
2044	13173	AI144770	v		ESTs
2045	6291	AI144797	h, l, m, w		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2046	7887	AI144832	I		ESTs, Highly similar to SYR_HUMAN ARGINYL-TRNA SYNTHETASE (ARGININE- -TRNA LIGASE) (ARGRS) [H.sapiens]
2047	11367	AI144858	r		ESTs
2048	6506	AI144919	c		ESTs
2049	8880	AI144936	I		ESTs
2050	8027	AI144958	u		ESTs
2054	14458	AI145095	General, ii, II		ESTs
2055	11391	AI145238	ss		ESTs
2056	13397	AI145332	II		ESTs
2057	23553	AI145343	nn		ESTs
2058	13374	AI145368	b		ESTs
2059	17545	AI145384	v		ESTs
2060	17479	AI145385	w		ESTs
2062	13006	AI145455	oo		ESTs
2063	11331	AI145556	ww		ESTs
2064	21216	AI145586	ww		ESTs
2066	5874	AI145801	General		ESTs
2067	13262	AI145853	d, kk		ESTs
2069	12733	AI145892	n		ESTs
2073	11354	AI146215	xx		ESTs
2074	18411	AI146259	k		ESTs
2076	11575	AI168950	tt		ESTs
2078	3284	AI168965	jj		ESTs
2079	5469	AI168986	tt		ESTs, Highly similar to hypothetical protein FLJ11021 similar to splicing factor, argini [Homo sapiens] [H.sapiens]
2081	22559	AI169007	d		ESTs
2086	16484	AI169116	gg, hh		ESTs
2088	10984	AI169156	s, rr, vv		ESTs
2091	8205	AI169176	z, General		ESTs
2092	12979	AI169177	d		ESTs, Highly similar to S33363 gly96 protein - mouse [M.musculus]
2098	149	AI169272	ww		ESTs
2102	7497	AI169302	k, mm		ESTs, Highly similar to S27393 sphingomyelin phosphodiesterase (EC 3.1.4.12), acidic, splice form 1 precursor - mouse [M.musculus]
2103	22276	AI169345	r		ESTs, Highly similar to FBX8_HUMAN F-box only protein 8 (F-box/SEC7 protein FBS) (DC10) [H.sapiens]
2104	16338	AI169374	p		ESTs
2106	24163	AI169430	r		ESTs, Weakly similar to T29315 hypothetical protein F36D4.5 - Caenorhabditis elegans [C.elegans]
2108	8903	AI169596	ww		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2109	13346	AI169599	m		ESTs
2111	12768	AI169643	cc		ESTs
2117	10724	AI169921	nn		ESTs
2118	5954	AI169984	b, uu		ESTs
2119	5899	AI170038	m		ESTs
2120	18222	AI170046	r		EST
2121	21254	AI170059	b		ESTs
2123	22014	AI170117	h		ESTs
2124	7113	AI170260	e		ESTs
2127	17861	AI170289	nn, ww		ESTs
2128	21395	AI170308	r		ESTs
2129	16688	AI170327	b, z, General, tt		ESTs
2130	13865	AI170357	ll, ss		ESTs
2132	2729	AI170363	General, xx		ESTs
2133	5297	AI170379	ff		ESTs
2135	17229	AI170530	General		ESTs
2137	23589	AI170593	s		ESTs
2138	6930	AI170628	c		ESTs, Weakly similar to hypothetical protein FLJ11016 [Homo sapiens] [H.sapiens]
2139	7054	AI170653	r		ESTs
2140	11542	AI170664	y		ESTs
2141	12698	AI170665	l, r, z		ESTs
2144	9757	AI170693	General		ESTs
2147	13617	AI170762	kk, oo		ESTs
2148	13370	AI170768	r		ESTs
2149	3104	AI170769	u		ESTs
2150	23630	AI170780	m		ESTs
2151	3023	AI170795	dd		ESTs
2152	22204	AI170820	ww		ESTs
2153	3501	AI170825	b, m		ESTs
2156	13702	AI171064	d, ll		ESTs
2157	2131	AI171091	ii		ESTs, Weakly similar to T19999 hypothetical protein C47D12.2 - Caenorhabditis elegans [C.elegans]
2158	23009	AI171147	v		ESTs, Weakly similar to S67312 probable membrane protein YDR255c - yeast (Saccharomyces cerevisiae) [S.cerevisiae]
2161	13704	AI171230	d		ESTs
2163	3990	AI171242	General		ESTs
2165	18660	AI171262	s, ww		ESTs
2169	11446	AI171338	n, p, w		ESTs
2172	11813	AI171487	ww		ESTs
2173	13718	AI171512	h		ESTs
2174	8398	AI171530	c		ESTs
2177	5833	AI171601	h, j, l, uu		ESTs
2179	24073	AI171632	e		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2180	6667	AI171646	u		ESTs
2182	21183	AI171676	mm		ESTs
2184	10550	AI171782	s		ESTs
2185	6669	AI171798	ll		ESTs
2186	2625	AI171800	j		ESTs
2188	6335	AI171866	h		ESTs
2189	5446	AI171876	uu		ESTs
2190	21956	AI171980	c		ESTs
2193	8057	AI172015	a, vv		ESTs
2195	1506	AI172051	q		ESTs, Highly similar to A29440 signal recognition particle receptor - human [H.sapiens]
2198	3153	AI172099	s, rr		ESTs
2203	9569	AI172157	n, v		ESTs
2206	18681	AI172206	g		ESTs
2208	6974	AI172263	tt, ww		ESTs
2209	18833	AI172266	j		ESTs, Moderately similar to protein kinase NYD-SP15 [Homo sapiens] [H.sapiens]
2212	15016	AI172285	nn		ESTs
2215	21020	AI172313	General		ESTs
2217	17049	AI172417	l		ESTs, Weakly similar to B.subtilis YQJC protein like [Caenorhabditis elegans] [C.elegans]
2220	13058	AI172519	v		ESTs
2221	13064	AI172540	k		EST
2222	19127	AI172542	gg, hh		ESTs
2224	13097	AI172600	r		ESTs
2226	8795	AI172618	General		ESTs
2227	13169	AI175001	m		ESTs
2228	11173	AI175005	a		ESTs
2230	8053	AI175033	l, pp		ESTs
2232	2331	AI175045	nn, xx		ESTs
2233	7134	AI175063	h		ESTs
2234	8604	AI175288	u		ESTs, Weakly similar to K08H10.9.p [Caenorhabditis elegans] [C.elegans]
2237	3759	AI175366	r, kk, tt		ESTs
2238	5637	AI175459	w		ESTs
2239	14717	AI175477	nn		ESTs
2240	13461	AI175501	q		ESTs, Weakly similar to T27753 hypothetical protein ZK1320.7 - Caenorhabditis elegans [C.elegans]
2241	13353	AI175508	xx		ESTs
2244	15229	AI175575	p		ESTs
2245	22084	AI175578	p, z, General, ee		ESTs
2246	15113	AI175590	s, tt		ESTs, Weakly similar to T15628 hypothetical protein C25H3.9 - Caenorhabditis elegans [C.elegans]



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2248	15984	AI175777	d		ESTs
2249	14501	AI175778	ff		ESTs
2250	5037	AI175791	l		ESTs
2255	2046	AI176004	k		ESTs
2256	22311	AI176007	c		ESTs, Highly similar to PM5P_HUMAN Protein pM5 precursor [H.sapiens]
2260	4585	AI176121	h, v		ESTs
2262	21742	AI176172	jj		ESTs
2263	6805	AI176182	o		ESTs
2265	22011	AI176212	ss		ESTs, Weakly similar to T23D8.3.p [Caenorhabditis elegans] [C.elegans]
2266	22765	AI176265	h		ESTs
2267	21869	AI176273	k		ESTs
2269	13501	AI176284	General, ww		ESTs
2270	21130	AI176298	d		ESTs
2272	13502	AI176320	x		ESTs
2273	22934	AI176323	bb		ESTs
2274	3014	AI176362	qq		ESTs
2275	15015	AI176363	jj		ESTs
2279	13175	AI176465	s		ESTs
2280	24236	AI176473	b, General		ESTs
2284	9492	AI176502	w, oo		ESTs
2285	15959	AI176540	General		ESTs
2286	23184	AI176554	ff		ESTs
2287	4882	AI176569	s		ESTs
2288	2679	AI176581	c		ESTs
2289	2704	AI176583	y		ESTs
2291	2161	AI176592	e		ESTs
2292	23587	AI176598	y, ss		ESTs
2293	4197	AI176607	n		ESTs
2295	2536	AI176616	General, ll		ESTs
2296	17647	AI176646	q		ESTs
2297	15179	AI176675	w		ESTs
2298	22517	AI176698	f, l		ESTs
2301	26245	AI176758	s		ESTs
2302	11952	AI176775	k		ESTs
2303	23797	AI176804	kk		ESTs
2304	14328	AI176806	w		ESTs
2305	21740	AI176810	h, w, General, qq		ESTs
2307	23449	AI176828	j		ESTs
2308	9712	AI176836	p, ff		ESTs, Weakly similar to T21364 hypothetical protein F25H5.6 - Caenorhabditis elegans [C.elegans]
2309	23299	AI176839	General, kk, ll, tt		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2310	6821	AI176841	o		ESTs
2311	5436	AI176850	jj		ESTs
2313	13000	AI176933	n		ESTs
2315	10825	AI177022	x		ESTs, Weakly similar to T13609 hypothetical protein 87B1.6 - fruit fly ( <i>Drosophila melanogaster</i> ) [ <i>D.melanogaster</i> ]
2316	2596	AI177031	l, General		ESTs
2318	3969	AI177055	l		ESTs
2319	6473	AI177091	o, xx		ESTs
2321	14335	AI177115	tt		ESTs
2323	3457	AI177128	y		ESTs
2326	21870	AI177281	pp		ESTs
2327	7519	AI177285	ss		ESTs
2331	4987	AI177428	ww		ESTs
2333	18823	AI177484	t		ESTs
2334	17722	AI177491	r, z		ESTs
2339	9521	AI177706	n		ESTs
2340	14275	AI177748	ww		ESTs
2341	6334	AI177765	General		ESTs, Weakly similar to T20254 hypothetical protein C55A6.1 - <i>Caenorhabditis elegans</i> [ <i>C.elegans</i> ]
2342	10611	AI177790	General		ESTs
2343	22037	AI177797	e		ESTs
2345	16111	AI177866	w		ESTs, Moderately similar to splicing factor, arginine/serine-rich 6 [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
2346	5275	AI177898	jj		ESTs, Weakly similar to T25144 hypothetical protein T22H6.6 - <i>Caenorhabditis elegans</i> [ <i>C.elegans</i> ]
2350	4828	AI177965	f, General		ESTs
2353	17320	AI178069	s		ESTs
2356	9440	AI178142	b, pp, ww		ESTs
2358	22751	AI178159	l		ESTs
2359	19014	AI178241	s		ESTs
2361	13141	AI178321	g		ESTs
2362	18996	AI178326	q		ESTs, Highly similar to hypothetical protein MGC4175 [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
2363	16045	AI178386	dd		ESTs
2364	18658	AI178475	d, n		ESTs
2365	8730	AI178483	General		ESTs, Highly similar to HEM6_MOUSE Coproporphyrinogen III oxidase, mitochondrial precursor (Coproporphyrinogenase) (Coprogen oxidase) (COX) [ <i>M.musculus</i> ]
2366	21256	AI178491	jj		ESTs
2367	14561	AI178503	r, rr		ESTs
2368	18800	AI178504	a, s, ff		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
2369	3246	AI178516	l, m, General, cc, dd, oo		ESTs, Weakly similar to S64571 probable membrane protein YGR245c - yeast ( <i>Saccharomyces cerevisiae</i> ) [ <i>S.cerevisiae</i> ]	
2370	7192	AI178530	f, v		ESTs	
2372	15282	AI178573	l		ESTs	
2373	4097	AI178635	c		ESTs	
2376	8072	AI178687	k		ESTs	
2377	21311	AI178688	tt		ESTs	
2378	22174	AI178689	u		ESTs, Moderately similar to hypothetical protein MGC3121 [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]	
2379	20570	AI178731	s		ESTs	
2380	5381	AI178734	f, ww		ESTs	
2382	23567	AI178746	n		ESTs	
2385	12047	AI178768	y		ESTs	
2386	3850	AI178804	b		ESTs	
2388	3138	AI178850	dd		ESTs	
2389	13591	AI178884	ww		ESTs	
2390	22361	AI178901	v		ESTs	
2392	6608	AI178912	bb		ESTs	
2393	22268	AI178929	nn		ESTs	
2394	15427	AI178951	vv		ESTs	
2396	18805	AI179039	gg, hh		ESTs	
2399	9596	AI179089	bb		ESTs	
2405	2818	AI179144	a		ESTs	
2407	8477	AI179167	h, w		ESTs	
2408	21568	AI179185	ii		ESTs	
2409	10489	AI179269	ww		ESTs	
2414	13029	AI179391	q		ESTs	
2415	19927	AI179397	ee			
2416	13614	AI179407	b, m, z		ESTs, Moderately similar to RB17_MOUSE Ras-related protein Rab-17 [ <i>M.musculus</i> ]	
2417	15042	AI179422	f		ESTs	
2418	15648	AI179445	s		ESTs	
2419	20687	AI179458	p		ESTs	
2420	13619	AI179464	n		ESTs	
2421	2768	AI179481	l, General, ff		ESTs	
2423	22724	AI179506	pp		ESTs	
2425	13054	AI179560	kk		ESTs	
2426	23270	AI179601	General, ii		ESTs	
2428	19383	AI179620	r		ESTs, Weakly similar to 0806162N protein URFA6L [ <i>Mus musculus</i> ] [ <i>M.musculus</i> ]	
2431	12412	AI179697	e		ESTs, Weakly similar to putative cytochrome oxidase [ <i>Escherichia coli</i> K12] [ <i>E.coli</i> ]	
2432	21528	AI179711	gg, hh		ESTs	
2433	7918	AI179750	c		ESTs	
2435	6251	AI179854	l		ESTs	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title	
2437	18895	AI179916	c, h, j		ESTs, Highly similar to HSPC038 protein [Homo sapiens] [H.sapiens]	
2439	12899	AI179967	ss		ESTs	
2442	2246	AI180113	w.		ESTs	
2444	18465	AI180187	gg, hh		ESTs	
2445	24028	AI180239	dd, qq		ESTs	
2447	4089	AI180251	v		ESTs	
2449	13990	AI180283	j		ESTs, Weakly similar to T25574 hypothetical protein C30H7.2 - Caenorhabditis elegans [C.elegans]	
2450	17859	AI180300	ww		ESTs	
2451	2249	AI180327	y		ESTs	
2452	6631	AI180336	ww		ESTs	
2454	7117	AI227612	ww		ESTs	
2456	14130	AI227670	u		ESTs	
2457	5471	AI227672	d		ESTs	
2458	12241	AI227689	p, y		ESTs	
2459	13666	AI227694	r		ESTs	
2460	23944	AI227705	pp		ESTs, Weakly similar to T21344 hypothetical protein F25H2.1 - Caenorhabditis elegans [C.elegans]	
2461	23015	AI227724	q		ESTs	
2463	6765	AI227761	l		ESTs, Highly similar to EFER_HUMAN Eferin [H.sapiens]	
2464	23023	AI227856	oo		ESTs	
2466	2374	AI227925	ff		ESTs	
2467	2226	AI227941	z, General		ESTs	
2471	20341	AI228103	xx		EST	
2473	11630	AI228165	g, h		ESTs	
2474	14241	AI228180	h		EST	
2475	18491	AI228195	g		ESTs	
2476	16140	AI228230	v		ESTs	
2477	4719	AI228265	x, General		ESTs	
2478	12946	AI228291	General		ESTs	
2480	8917	AI228301	z, ee, nn, rr		ESTs	
2481	6102	AI228335	l		ESTs	
2482	13740	AI228455	c		ESTs, Moderately similar to KIAA0943 protein [Homo sapiens] [H.sapiens]	
2484	13753	AI228589	g		ESTs	
2486	16053	AI228596	p, kk		ESTs, Weakly similar to T16757 hypothetical protein R144.3 - Caenorhabditis elegans [C.elegans]	
2488	22106	AI228628	ll, ww		ESTs	
2490	3557	AI228672	nn		ESTs	
2491	13757	AI228676	z, General		ESTs, Weakly similar to C32D5.6.p [Caenorhabditis elegans] [C.elegans]	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2492	2669	AI228695	ww		ESTs
2493	24685	AI228696	n		ESTs
2496	13776	AI228915	bb		ESTs
2498	22148	AI229071	gg, hh		ESTs
2500	18404	AI229104	v		ESTs, Moderately similar to C Chain C, Human Glyoxalase I Complexed With S-P-Nitrobenzylloxycarbonylglutathione [H.sapiens]
2503	2748	AI229179	vv		ESTs
2504	22644	AI229183	General		ESTs
2506	15490	AI229253	ii		Rattus norvegicus zinc finger protein (pMLZ-4) mRNA, 3' untranslated region
2507	5107	AI229291	w		ESTs
2509	15500	AI229337	a, r		ESTs
2510	7323	AI229405	ss		ESTs, Weakly similar to H32C10.1.p [Caenorhabditis elegans] [C.elegans]
2512	13838	AI229416	v		ESTs
2516	15426	AI229497	c, u		ESTs, Moderately similar to JE0381 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain NDUFB10 - human [H.sapiens]
2517	23435	AI229502	oo		ESTs
2518	13690	AI229660	k		ESTs
2519	2231	AI229664	y, ll		ESTs
2520	21879	AI229695	h		ESTs
2522	23983	AI229708	General		ESTs, Moderately similar to T46864 nicotinate-nucleotide pyrophosphorylase (carboxylating) (EC 2.4.2.19) [validated] - human [H.sapiens]
2524	13035	AI229844	j		ESTs
2525	14258	AI229902	y		ESTs
2526	11934	AI229905	c, General		ESTs, Weakly similar to T26088 hypothetical protein W02B12.7 - Caenorhabditis elegans [C.elegans]
2529	22111	AI230110	y		ESTs
2531	12554	AI230125	bb		ESTs
2533	18417	AI230166	q		ESTs
2538	18528	AI230284	b		ESTs
2539	14298	AI230360	y		ESTs
2540	24137	AI230370	ll		ESTs
2541	20620	AI230428	p		ESTs, Weakly similar to GEM4_HUMAN Component of gems 4 (Gemin4) (p97) [H.sapiens]
2542	4179	AI230431	q, ww		ESTs
2543	6820	AI230439	ll		ESTs, Weakly similar to S69697 hypothetical protein YDR412w - yeast (Saccharomyces cerevisiae) [S.cerevisiae]
2544	15938	AI230503	p		ESTs
2547	18393	AI230632	c, f, kk		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2548	11347	AI230660	ss		ESTs, Weakly similar to T13618 hypothetical protein 8D8.4 - fruit fly ( <i>Drosophila melanogaster</i> ) [D.melanogaster]
2549	20764	AI230668	General		ESTs
2551	18529	AI230716	b		ESTs
2553	4046	AI230737	b, c		ESTs
2558	13928	AI230939	x		ESTs
2562	19082	AI231038	h, z, dd		ESTs
2564	633	AI231127	k, l, cc, dd		ESTs
2567	6743	AI231219	c		ESTs
2568	20397	AI231226	z		ESTs, Moderately similar to JC5224 methionine-tRNA ligase (EC 6.1.1.10) - human [H.sapiens]
2569	2619	AI231290	k		ESTs, Highly similar to N-acetyltransferase, homolog of <i>S. cerevisiae</i> ARD1; N-acetyltransferase ARD1, human homolog of [Homo sapiens] [H.sapiens]
2572	13958	AI231356	g		ESTs
2574	19595	AI231379	ww		ESTs
2577	11489	AI231567	ff		ESTs, Highly similar to 2016304A motor protein [Homo sapiens] [H.sapiens]
2579	2422	AI231615	d		ESTs
2580	14000	AI231716	k		ESTs
2581	8062	AI231773	q, r		ESTs
2582	18454	AI231776	ll		ESTs, Moderately similar to F43G9.5.p [Caenorhabditis elegans] [C.elegans]
2584	7055	AI231789	h		ESTs, Weakly similar to T24720 hypothetical protein T09A5.6 - <i>Caenorhabditis elegans</i> [C.elegans]
2586	14007	AI231808	vv		ESTs
2587	17077	AI231834	kk		ESTs
2589	22995	AI232047	n, r, kk		ESTs
2590	6682	AI232065	dd		ESTs
2593	2587	AI232103	General		ESTs
2594	8959	AI232128	ww		ESTs
2597	6726	AI232157	v		ESTs
2598	5012	AI232163	tt		ESTs
2599	11549	AI232174	dd		ESTs
2600	21242	AI232230	z		ESTs, Weakly similar to T27032 hypothetical protein Y49A3A.1 - <i>Caenorhabditis elegans</i> [C.elegans]
2601	23125	AI232266	vv, xx		ESTs
2603	23379	AI232274	d		ESTs, Weakly similar to T29933 hypothetical protein F29B9.10 - <i>Caenorhabditis elegans</i> [C.elegans]
2604	13237	AI232280	v		ESTs
2609	14034	AI232321	a		ESTs, Highly similar to CGI-150 protein [Homo sapiens] [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2610	11873	AI232326	qq, vv		ESTs
2611	15246	AI232332	w		ESTs
2612	16172	AI232341	General, kk		ESTs, Weakly similar to C13B9.2.p [Caenorhabditis elegans] [C.elegans]
2613	11411	AI232346	l, General, ee		ESTs
2615	24007	AI232397	k		ESTs
2616	3143	AI232408	l, l		ESTs
2617	18910	AI232419	g, General		ESTs, Weakly similar to YLC4_CAEEL Hypothetical 81.0 kDa protein C35D10.4 in chromosome III [C.elegans]
2621	10405	AI232524	uu		ESTs
2623	20350	AI232552	General, kk		EST
2625	15088	AI232613	rr, ss, uu		ESTs, Weakly similar to T22242 hypothetical protein F45G2.10 - Caenorhabditis elegans [C.elegans]
2626	4440	AI232643	General		ESTs
2627	12177	AI232666	c		ESTs, Weakly similar to NADE_DROME Putative glutamine-dependent NAD(+) synthetase (NAD(+) synthase [glutamine-hydrolyzing]) [D.melanogaster]
2630	20566	AI232793	d		ESTs
2631	10173	AI232815	gg, hh		ESTs
2632	4521	AI232903	a, r, y		ESTs, Moderately similar to JC5824 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) Cl-B8 chain - human [H.sapiens]
2633	12467	AI232924	mm		ESTs
2634	7147	AI232948	a, ff		ESTs, Weakly similar to T27038 hypothetical protein Y49E10.2 - Caenorhabditis elegans [C.elegans]
2635	3917	AI232970	a, o, ff, uu		ESTs
2637	5355	AI233031	a, b, General, uu		ESTs
2639	6033	AI233081	m		ESTs
2642	14081	AI233164	xx		ESTs
2643	11561	AI233182	bb		ESTs
2644	13598	AI233194	h		ESTs
2645	17790	AI233204	j		ESTs, Moderately similar to ESTD_HUMAN Esterase D [H.sapiens]
2648	14108	AI233226	cc		ESTs
2649	2025	AI233232	g		ESTs
2651	15900	AI233262	q		ESTs
2653	22263	AI233308	tt		ESTs
2655	4475	AI233374	t, ww		ESTs
2656	5377	AI233383	a		ESTs

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2657	7161	AI233407	l, tt		ESTs, Weakly similar to S44853 K12H4.3 protein - <i>Caenorhabditis elegans</i> [ <i>C.elegans</i> ]
2658	23010	AI233446	z		ESTs, Weakly similar to S67312 probable membrane protein YDR255c - yeast ( <i>Saccharomyces cerevisiae</i> ) [ <i>S.cerevisiae</i> ]
2659	14095	AI233468	z		ESTs
2660	5794	AI233480	pp		ESTs
2662	12588	AI233576	d		ESTs, Highly similar to T46486 chromosomal protein CAPC homolog DKFZp434F205.1 [similarity] - human [ <i>H.sapiens</i> ]
2664	7837	AI233688	s		ESTs
2665	21765	AI233696	wv		ESTs
2666	2044	AI233698	gg, hh		ESTs
2667	18254	AI233704	oo		ESTs
2668	4670	AI233714	cc		ESTs
2671	2772	AI233750	f		ESTs
2672	22686	AI233753	d		ESTs
2673	7469	AI233767	uu		ESTs, Highly similar to T00744 KIAA0154 protein homolog A-735G6.4 - human [ <i>H.sapiens</i> ]
2674	21197	AI233769	bb		ESTs
2677	21260	AI233885	gg, hh		ESTs
2678	16616	AI234079	x		ESTs
2679	17791	AI234091	uu		ESTs
2680	14181	AI234107	b, h, General		ESTs
2681	22233	AI234128	nn		ESTs
2682	14187	AI234147	nn		ESTs
2683	14449	AI234152	p		ESTs
2684	7071	AI234162	ll		ESTs
2685	14192	AI234219	cc		EST
2686	12583	AI234251	ss		ESTs
2687	14197	AI234292	cc		ESTs
2688	17664	AI234496	ee		ESTs
2690	14677	AI234620	t, General		ESTs
2691	22453	AI234678	p, z		ESTs
2692	23583	AI234819	bb		ESTs
2693	14693	AI234830	l		ESTs, Weakly similar to S38159 hypothetical protein YKR081c - yeast ( <i>Saccharomyces cerevisiae</i> ) [ <i>S.cerevisiae</i> ]
2694	22213	AI234858	tt		ESTs, Highly similar to splicing factor 3b, subunit 3, 130kD; spliceosome-associated protein 130 [ <i>Homo sapiens</i> ] [ <i>H.sapiens</i> ]
2696	14705	AI234943	ss		ESTs
2697	17484	AI234956	d		ESTs
2699	19146	AI235049	cc, qq		ESTs
2701	8850	AI235059	l, y		ESTs



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2704	23535	AI235232	g		ESTs
2705	6632	AI235277	General, dd		ESTs
2707	17646	AI235338	g		ESTs
2708	8153	AI235359	r		ESTs
2709	9588	AI235365	p		ESTs
2714	9547	AI235559	General		ESTs, Highly similar to HEM6_MOUSE Coproporphyrinogen III oxidase, mitochondrial precursor (Coproporphyrinogenase) (Coprogen oxidase) (COX) [M.musculus]
2715	14743	AI235560	nn		ESTs
2716	2850	AI235563	d		ESTs
2718	11729	AI235630	l, kk, nn		ESTs
2719	19052	AI235675	ww		ESTs
2720	5698	AI235692	t, mm		ESTs, Moderately similar to I Chain I, Beta-Galactosidase (Chains I-P) [E.coli]
2723	14760	AI235806	tt		EST
2727	14776	AI235950	v		ESTs
2729	19418	AI236030	oo		EST
2735	23230	AI236146	tt		ESTs
2737	18406	AI236168	y, pp		ESTs
2739	14880	AI236203	k		ESTs
2741	14596	AI236342	oo		ESTs, Weakly similar to T20417 hypothetical protein E02H1.1 - Caenorhabditis elegans [C.elegans]
2743	9407	AI236402	e, dd		ESTs
2744	19075	AI236473	l, y		ESTs
2745	9546	AI236520	q		ESTs
2749	3103	AI236603	bb		ESTs
2750	6567	AI236608	s, z		ESTs
2751	6890	AI236610	g		ESTs
2753	17248	AI236635	gg, hh, vv		ESTs, Highly similar to 2120310B RNA polymerase II elongation factor [Mus musculus] [M.musculus]
2754	7983	AI236664	x		ESTs
2757	6558	AI236741	u		ESTs
2759	22443	AI236761	p		ESTs
2760	24388	AI236772	ss		ESTs
2761	23081	AI236778	u		ESTs
2763	14233	AI236794	qq		ESTs
2765	23595	AI236834	y		ESTs
2766	14800	AI236856	ww		ESTs
2768	11818	AI236937	ss		ESTs
2770	6240	AI237132	General, rr		ESTs
2771	14937	AI237159	r		ESTs, Weakly similar to T23655 hypothetical protein M01F1.3 - Caenorhabditis elegans [C.elegans]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2772	3798	AI237193	ee, mm		ESTs, Weakly similar to T24155 hypothetical protein R10H10.6 - <i>Caenorhabditis elegans</i> [C.elegans]
2773	9289	AI237251	g		ESTs
2774	3201	AI237286	p		ESTs
2775	350	AI237311	ee		ESTs, Weakly similar to T22416 hypothetical protein F49C12.12 - <i>Caenorhabditis elegans</i> [C.elegans]
2779	14919	AI237399	l		ESTs
2780	14911	AI237403	s, nn		ESTs
2782	14834	AI237543	o		ESTs
2783	23659	AI237585	oo		ESTs
2784	9680	AI237606	b		ESTs
2788	8759	AI237646	l, s, nn, uu		ESTs
2790	19248	AI237683	tt		ESTs
2791	23860	AI237684	m		ESTs
2792	3347	AI237691	u		ESTs
2794	14656	AI237820	a		ESTs
2795	13062	AI237822	u		ESTs
2796	9501	AI638949	c		ESTs, Moderately similar to chromosome 20 open reading frame 116 [Homo sapiens] [H.sapiens]
2797	15475	AI638950	oo		ESTs
2798	6127	AI638960	pp		ESTs
2798	6128	AI638960	h, pp		ESTs
2799	19786	AI638973	g		EST
2800	25841	AI638977	tt		
2801	25845	AI638987	k		
2803	25848	AI638991	cc		
2804	25855	AI639002	f		
2805	17214	AI639008	f, z, General		ESTs
2806	23781	AI639012	c		ESTs, Weakly similar to hypothetical protein MGC2601 [Homo sapiens] [H.sapiens]
2808	4035	AI639023	cc		ESTs
2809	7176	AI639029	n, ii, qq, ss, vv		ESTs
2810	19790	AI639036	kk		EST
2811	18495	AI639042	ww		ESTs
2812	19997	AI639043	bb, jj		ESTs
2814	24205	AI639045	c, g, r, kk		ESTs
2816	16514	AI639093	oo		ESTs
2817	7170	AI639102	d, pp		ESTs
2818	19952	AI639108	z, ee, kk		ESTs
2820	17367	AI639123	oo		ESTs
2821	25899	AI639136	d		
2822	20014	AI639137	g		EST

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2824	20016	AI639158	m		ESTs, Weakly similar to IF3Y_YEAST EUKARYOTIC TRANSLATION INITIATION FACTOR 3 62 KDA SUBUNIT (EIF3 P62) (TRANSLATION INITIATION FACTOR EIF3, P62 SUBUNIT) (GCD10 PROTEIN) [S.cerevisiae]
2825	19744	AI639161	oo		EST
2826	25907	AI639167	General, bb, oo, uu, ww		ESTs
2827	19934	AI639170	mm		ESTs
2828	20018	AI639186	tt		EST
2829	20075	AI639187	gg, hh		ESTs, Weakly similar to T23273 hypothetical protein Y63D3A.8 - Caenorhabditis elegans [C.elegans]
2830	19795	AI639197	k		EST
2831	25921	AI639209	v		
2833	19945	AI639238	c		ESTs
2834	19962	AI639248	f, s		
2835	17082	AI639255	w		ESTs
2836	19013	AI639256	ww		ESTs
2837	25934	AI639257	pp		
2838	25936	AI639264	g		
2840	25949	AI639304	e		EST
2841	16759	AI639312	nn		ESTs
2842	3787	AI639324	tt		ESTs
2844	25962	AI639347	x		
2845	25964	AI639352	v		
2846	20026	AI639354	p, bb, qq		EST
2847	25966	AI639356	cc		
2849	19967	AI639409	cc		ESTs
2850	20029	AI639417	k		ESTs
2852	10098	AI639425	p		ESTs
2853	15937	AI639447	f		ESTs
2854	26000	AI639455	mm, xx		
2855	26001	AI639456	g		
2856	26004	AI639461	tt		
2857	19870	AI639462	x		ESTs
2862	20056	AI639504	I, II		ESTs, Weakly similar to T13607 hypothetical protein 87B1.3 - fruit fly (Drosophila melanogaster) [D.melanogaster]
2863	15545	AI639506	ff, nn		ESTs
2864	19864	AI639510	u, jj		ESTs
2866	3240	AI639524	d, k		ESTs
2871	25235	AJ001290	jj	solute carrier family 5 (inositol transporters), member 3	
2874	25244	AJ011115	g, cc		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2875	25247	AJ011608	bb		
2882	25254	D10770	k, mm		
2884	20487	D13556	gg, hh		
2885	25257	D13623	dd		
2885	15281	D13623	b, l, q, x, General, dd		ESTs
2886	25042	D14015	e	Cyclin E1	
2887	20384	D17349	o		
2888	25260	D17521	q, dd, oo		
2892	25047	D31838	ff		
2895	25292	D45240	v		
2900	25313	D87991	q, dd		
2902	25808	E00593	u, ee		
2903	25801	E12286	e		
2904	11892	H31078	k, gg, hh		ESTs
2905	22543	H31117	General		
2906	18517	H31118	mm		ESTs, Weakly similar to PC326 protein [Homo sapiens] [H.sapiens]
2908	11895	H31367	z		ESTs
2909	26371	H31373	t		
2910	12360	H31456	v		ESTs
2911	20514	H31489	p		ESTs
2913	6499	H31625	r		ESTs
2914	4349	H31648	d, ss		EST
2916	4354	H31695	nn		ESTs
2920	4364	H31887	bb		ESTs
2922	4366	H31955	tt		ESTs
2923	4367	H31976	gg, hh		ESTs, Weakly similar to T24597 hypothetical protein T06E6.1 - Caenorhabditis elegans [C.elegans]
2924	11907	H31990	gg, hh		ESTs
2925	10531	H32109	v, ss		ESTs
2927	17307	H32747	rr		ESTs
2929	6980	H33001	f, j, m, n, kk		ESTs
2931	4385	H33086	t		ESTs
2932	24033	H33101	General, oo, uu		ESTs
2933	4395	H33149	p		ESTs, Weakly similar to F38A5.1.p [Caenorhabditis elegans] [C.elegans]
2934	16524	H33219	a, n, w		ESTs
2935	10184	H33426	jj, rr		ESTs
2935	10185	H33426	w, jj		ESTs
2937	4407	H33528	l, ff, oo, pp		ESTs
2938	4418	H33656	tt		ESTs
2940	12155	J00728	o, bb, qq		
2941	25050	J01435	n		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
2941	25319	J01435	n		
2954	25325	K03045	a, v, vv, xx		
2954	25326	K03045	a, vv		
2955	20149	K03243	qq, xx		
2958	12158	L00320	o		
2962	1806	L10336	d		
2963	25363	L13235	General, ll		
2966	25366	L14003	General		
2970	25370	L16995	o, General, kk		
2973	25052	L22190	xx		
2977	25382	L28114	cc		
2979	13681	L38482	u		
2983	25055	M11251	o		
2986	20626	M13100	ii		
2986	20627	M13100	gg, hh		
2986	20628	M13100	w		
2987	25056	M13234	cc		
2990	25400	M14776	w, rr		
2993	25403	M15528	g		
2998	25416	M20721	g		
2999	20481	M22631	tt	Propionyl Coenzyme A carboxylase, alpha polypeptide	
3000	805	M23572	General		
3001	25425	M23888	bb		
3002	24831	M23889	ii		Rat T-cell receptor unproductive beta-chain mRNA V-region (V-D-J-C), clone CRTB320
3021	25057	M58495	e		
3026	17130	M62992	d, l		
3026	17131	M62992	d		
3032	19730	M81183	f		ESTs
3037	20664	M91234	m, t, mm		Rat VL30 element mRNA
3038	1905	M91235	mm		Rat VL30 element mRNA
3055	25540	NM_012513	h		
3086	25204	NM_012599	a, h, v, x, oo, uu		
3092	23524	NM_012615	c, l, m, y, General		
3094	25433	NM_012621	cc		
3099	18725	NM_012645	a, cc, dd, ll, rr		
3115	18719	NM_012695	n, dd, ii, uu	Rat senescence marker protein 2A gene, exons 1 and 2	Rat senescence marker protein 2A gene, exons 1 and 2
3118	26032	NM_012703	a, dd, pp, uu		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3128	25649	NM_012736	bb		
3150	20577	NM_012823	k, oo	Annexin A3	ESTs
3159	25336	NM_012850	g		
3160	18960	NM_012851	uu		ESTs
3182	19302	NM_012930	o		EST, Moderately similar to CPT2_RAT CARNITINE O-PALMITOYLTRANSFERASE II, MITOCHONDRIAL PRECURSOR (CPT II) [R.norvegicus]
3185	19398	NM_012939	b		EST
3187	20930	NM_012941	k, n, r, jj		
3199	26359	NM_012984	cc		
3225	14996	NM_013059	x	Tissue-nonspecific ALP alkaline phosphatase	Tissue-nonspecific ALP alkaline phosphatase
3225	14997	NM_013059	f, ff, kk	Tissue-nonspecific ALP alkaline phosphatase	Tissue-nonspecific ALP alkaline phosphatase
3230	25676	NM_013069	t		
3238	26047	NM_013096	k, tt		
3238	26149	NM_013096	r		
3256	25567	NM_013156	j, oo, uu		
3265	25312	NM_013178	ss		
3281	18305	NM_013226	h, bb	ribosomal protein L32	
3298	25546	NM_017023	cc		
3314	1261	NM_017077	xx		
3366	20052	NM_017220	h		ESTs
3366	26043	NM_017220	cc		
3367	11989	NM_017222	k		ESTs
3367	18967	NM_017222	f		ESTs
3403	26109	NM_017306	o, jj		EST
3408	19718	NM_017315	nn		ESTs
3423	1569	NM_017361	oo, pp	nucleoporin p54	nucleoporin p54
3506	20633	NM_019630	g		ESTs
3537	20182	NM_021840	c, d		
3555	13758	NM_022289	f, u		ESTs
3620	19495	NM_022700	d		EST
3633	19924	NM_022937	f	Doc2A	
3648	8656	NM_023979	ii	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	ESTs
3675	8296	NM_024384	tt	PDRP protein	PDRP protein
3732	5999	NM_031057	bb, pp		ESTs
3764	19359	NM_031136	b, s		EST
3768	21623	NM_031144	pp		
3794	26327	NM_031357	w		ESTs
3794	25862	NM_031357	d		
3796	25069	NM_031509	vv		
3804	25058	NM_031533	h, kk		
3819	25793	NM_031577	pp		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
3906	8384	NM_031836	t, mm, xx	vascular endothelial growth factor	vascular endothelial growth factor
3906	8385	NM_031836	mm	vascular endothelial growth factor	vascular endothelial growth factor
3906	8386	NM_031836	t, mm, xx	vascular endothelial growth factor	vascular endothelial growth factor
3916	8663	NM_031971	nn	Heat shock protein 70-1	Heat shock protein 70-1
3939	25528	NM_033096	c, ss		
3945	11714	NM_033352	f, l, n, General, kk		ESTs
3982	19367	NM_053469	n, y		EST
3989	5937	NM_053523	ee, tt		ESTs
4014	19403	NM_053604	f		EST
4055	20645	NM_053806	j		
4162	23350	NM_130894	p	mitofusin 2	mitofusin 2
4163	17426	NM_131910	j	dynein-associated protein RKM23	dynein-associated protein RKM23
4174	23200	NM_133324	a	corneal wound healing related protein	corneal wound healing related protein
4201	797	NM_133609	m, dd, oo, pp	eukaryotic translation initiation factor 2B, subunit 3 (gamma, 58kD)	eukaryotic translation initiation factor 2B, subunit 3 (gamma, 58kD)
4201	798	NM_133609	f, m, n, dd, ee, ll, oo, pp	eukaryotic translation initiation factor 2B, subunit 3 (gamma, 58kD)	eukaryotic translation initiation factor 2B, subunit 3 (gamma, 58kD)
4206	19384	NM_134326	pp		EST
4219	2367	NM_134410	b, q, x	Mg87 protein	Mg87 protein
4219	2368	NM_134410	b, ss	Mg87 protein	Mg87 protein
4233	7620	NM_138523	t	potassium channel regulatory factor	ESTs
4241	16401	NM_138828	ee		
4273	17657	NM_139101	l, q, z, pp	potassium channel regulator 1	potassium channel regulator 1
4288	10458	NM_144741	u		EST
4295	26218	NM_145084	r		Rattus norvegicus hypothetical protein RMT-7 mRNA, complete cds
4295	23756	NM_145084	g, cc		Rattus norvegicus hypothetical protein RMT-7 mRNA, complete cds
4300	6988	NM_145677	ww		ESTs
4306	20515	NM_145784	d, qq		ESTs
4306	21355	NM_145784	o, v		ESTs
4306	20698	NM_145784	a, x, vv		
4306	13642	NM_145784	jj		ESTs
4307	14664	NM_145790	General, ii, kk, ss		ESTs
4309	25644	NM_147136	u		
4317	8018	NM_153306	oo		ESTs
4318	25498	NM_153308	mm		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4321	11756	NM_153314	e, General, rr		
4323	14128	NM_153740	e		ESTs
4327	25064	S45392	v		
4328	25481	S46798	n		
4329	25483	S48190	ff, ww		
4330	25491	S58528	t, mm		
4331	25495	S59892	c		
4332	25496	S59893	d, v		
4336	25511	S68944	ee		
4336	25512	S68944	u		
4337	25513	S69315	k, q		
4339	25518	S70011	y		
4341	1575	S74801	g, cc		
4342	25531	S74907	l, y, ff, pp		
4344	17128	S75997	d		
4346	25538	S76466	u		
4349	25550	S79213	j, General, kk, qq	protein phosphatase 1, regulatory (inhibitor) subunit 2	
4350	25559	S81025	l, m, General, dd		
4352	25071	S83436	l, oo		
4353	25568	S87522	k, n		
4355	25075	U01347	z		
4360	25576	U09361	h	tenascin C	
4364	25586	U17837	General		
4369	17480	U31598	e, pp		R.norvegicus mRNA for RT1.Ma
4371	25598	U32575	c		
4373	1483	U34843	General	D123 gene product	D123 gene product
4379	24008	U47316	jj		ESTs, Weakly similar to S40928 hypothetical protein ZK1098.5 - Caenorhabditis elegans [C.elegans]
4380	25604	U50185	xx	myosin phosphatase, target subunit 1	
4380	25605	U50185	t, ff, mm	myosin phosphatase, target subunit 1	
4384	25607	U53873	k		
4388	25628	U70268	ii		
4392	25636	U75921	cc		
4393	25639	U75925	pp		
4401	18663	U95052	u	eukaryotic translation initiation factor 4 gamma, 2	ESTs, Weakly similar to S49172 translation initiation factor eIF-4 gamma - human (fragment) [H.sapiens]
4402	26033	X00722	q		



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4403	819	X02284	b, e, General, uu		
4405	25664	X05472	v		
4407	25666	X06801	t, mm		
4409	803	X07266	r		
4411	1113	X07729	y		
4418	25678	X14848	b		
4419	25679	X15013	c		
4420	25680	X15551	m, x, tt		
4423	25087	X51615	j, t		
4425	17129	X52583	d		
4426	25689	X52815	t, y		
4430	25691	X53504	l, q, General		
4431	25694	X54250	a		
4432	25088	X54419	h, v		
4436	25700	X57986	pp	Protein kinase, cAMP-dependent, catalytic, alpha	
4436	25701	X57986	f, p, r, z, General	Protein kinase, cAMP-dependent, catalytic, alpha	
4441	25705	X59375	h, j, ji		
4442	25706	X59608	w		
4443	25713	X60659	e, u		
4446	25719	X62146	l, ff		
4449	25725	X62660	qq, vv		
4451	25729	X62950	t		
4461	16272	X76456	e		
4462	25741	X76489	mm	CD9 antigen (p24)	
4465	25743	X80130	t, mm		
4467	25747	X81448	t, General, bb, mm, ss	keratin complex 1, acidic, gene 18	
4469	25753	X89695	g, cc		
4470	25756	X89698	f		
4471	25758	X89700	pp		
4472	25761	X89702	h		
4474	25769	X95850	k		
4475	12978	X96437	d		ESTs, Highly similar to S33363 gly96 protein - mouse [M.musculus]
4477	25774	X99723	ee, mm	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2969	16119	L16532	q	2',3'-cyclic nucleotide 3' phosphodiesterase, cyclic nucleotide phosphodiesterase 1	
4126	15408	NM_057197	rr	2,4-dienoyl CoA reductase 1, mitochondrial	2,4-dienoyl CoA reductase 1, mitochondrial
4126	15409	NM_057197	ff, ii, jj	2,4-dienoyl CoA reductase 1, mitochondrial	2,4-dienoyl CoA reductase 1, mitochondrial
1271	22602	AF044574	o	2,4-dienoyl CoA reductase 2, peroxisomal, 2-4-dienoyl-Coenzyme A reductase 2, peroxisomal	2,4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, 2-4-dienoyl-Coenzyme A reductase 2, peroxisomal, Mus musculus, Similar to hypothetical protein MGC4172, clone MGC:18716 IMAGE:4219994, mRNA, complete cds, carbonyl reductase 2, peroxisomal trans 2-enoyl CoA reductase; putative short chain alcohol dehydrogenase, peroxisomal trans-2-enoyl-CoA reductase
1271	22603	AF044574	o, kk	2,4-dienoyl CoA reductase 2, peroxisomal, 2-4-dienoyl-Coenzyme A reductase 2, peroxisomal	2,4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, 2-4-dienoyl-Coenzyme A reductase 2, peroxisomal, Mus musculus, Similar to hypothetical protein MGC4172, clone MGC:18716 IMAGE:4219994, mRNA, complete cds, carbonyl reductase 2, peroxisomal trans 2-enoyl CoA reductase; putative short chain alcohol dehydrogenase, peroxisomal trans-2-enoyl-CoA reductase
3248	650	NM_013134	w	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	3-hydroxy-3-methylglutaryl-Coenzyme A reductase, Mus musculus, Similar to 3-hydroxy-3-methylglutaryl-Coenzyme A reductase, clone MGC:25828 IMAGE:4166540, mRNA, complete cds, SREBP CLEAVAGE-ACTIVATING PROTEIN
3248	651	NM_013134	t	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	3-hydroxy-3-methylglutaryl-Coenzyme A reductase, Mus musculus, Similar to 3-hydroxy-3-methylglutaryl-Coenzyme A reductase, clone MGC:25828 IMAGE:4166540, mRNA, complete cds, SREBP CLEAVAGE-ACTIVATING PROTEIN

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3248	652	NM_013134	n, t	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	3-hydroxy-3-methylglutaryl-Coenzyme A reductase, Mus musculus, Similar to 3-hydroxy-3-methylglutaryl-Coenzyme A reductase, clone MGC:25828 IMAGE:4166540, mRNA, complete cds, SREBP CLEAVAGE-ACTIVATING PROTEIN
3386	20600	NM_017268	q, w, jj	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1, 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble), 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2, pre B-cell leukemia transcription factor 1
3386	20601	NM_017268	q, w, jj	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1, 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble), 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2, pre B-cell leukemia transcription factor 1
3510	20493	NM_020076	b, k, l, General, bb, ff, qq, tt, uu	3-hydroxyanthranilate 3,4-dioxygenase	3-hydroxyanthranilate 3,4-dioxygenase
3510	20494	NM_020076	cc, ii, ss	3-hydroxyanthranilate 3,4-dioxygenase	3-hydroxyanthranilate 3,4-dioxygenase
3497	15680	NM_019376	ii, ll	3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	
1957	18278	AI105080	m	3-oxoacid CoA transferase	3-oxoacid CoA transferase, 3-oxoacid CoA transferase 2, ESTs, Highly similar to SCOT_HUMAN SUCCINYL-COA:3-KETOACID-COENZYME A TRANSFERASE PRECURSOR [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3837	21585	NM_031620	j	3-phosphoglycerate dehydrogenase, phosphoglycerate dehydrogenase	3-phosphoglycerate dehydrogenase, EST, Moderately similar to SERA MOUSE D-3- PHOSPHOGLYCERATE DEHYDROGENASE [M.musculus]; ESTs, Weakly similar to 3-phosphoglycerate dehydrogenase [Rattus norvegicus] [R.norvegicus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15:3- phosphoglycerate dehydrogenase, full insert sequence, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase
3837	21586	NM_031620	j, u, dd, oo	3-phosphoglycerate dehydrogenase, phosphoglycerate dehydrogenase	3-phosphoglycerate dehydrogenase, EST, Moderately similar to SERA MOUSE D-3- PHOSPHOGLYCERATE DEHYDROGENASE [M.musculus]; ESTs, Weakly similar to 3-phosphoglycerate dehydrogenase [Rattus norvegicus] [R.norvegicus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15:3- phosphoglycerate dehydrogenase, full insert sequence, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase
3837	21587	NM_031620	k	3-phosphoglycerate dehydrogenase, phosphoglycerate dehydrogenase	3-phosphoglycerate dehydrogenase, EST, Moderately similar to SERA MOUSE D-3- PHOSPHOGLYCERATE DEHYDROGENASE [M.musculus]; ESTs, Weakly similar to 3-phosphoglycerate dehydrogenase [Rattus norvegicus] [R.norvegicus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15:3- phosphoglycerate dehydrogenase, full insert sequence, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase
449	17742	AA866302	ss	4-hydroxyphenylpyruvate dioxygenase, 4- hydroxyphenylpyruvic acid dioxygenase	4-hydroxyphenylpyruvate dioxygenase, 4- hydroxyphenylpyruvic acid dioxygenase
3371	17740	NM_017233	ss	4-hydroxyphenylpyruvate dioxygenase, 4- hydroxyphenylpyruvic acid dioxygenase	4-hydroxyphenylpyruvate dioxygenase, 4- hydroxyphenylpyruvic acid dioxygenase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3081	20313	NM_012585	k	5-hydroxytryptamine (serotonin) receptor 1A	5-hydroxytryptamine (serotonin) receptor 1A
3680	22282	NM_024394	h, m, General, uu	5-hydroxytryptamine (serotonin) receptor 3A	5-hydroxytryptamine (serotonin) receptor 3A
3036	21882	M83740	a, General, ff	6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1)	
4483	19694	Z48444	ee	a disintegrin and metalloprotease domain 10, a disintegrin and metalloproteinase domain 10	ESTs, Moderately similar to PC4265 disintegrin and metalloproteinase 10 [H.sapiens], Homo sapiens cDNA FLJ13398 fis, clone PLACE1001377, highly similar to Homo sapiens ADAM10 (ADAM10) mRNA, RIKEN cDNA 1700031C13 gene, a disintegrin and metalloprotease domain 10, a disintegrin and metalloproteinase domain 10
3312	18957	NM_017075	o, xx	acetyl-Coenzyme A acetyltransferase 1, acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)	Homo sapiens, Similar to acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase), clone MGC:13582 IMAGE:4278329, mRNA, complete cds, Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone MGC:39067 IMAGE:5365469, mRNA, complete cds, acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase)
3312	18958	NM_017075	o, jj	acetyl-Coenzyme A acetyltransferase 1, acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)	Homo sapiens, Similar to acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase), clone MGC:13582 IMAGE:4278329, mRNA, complete cds, Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone MGC:39067 IMAGE:5365469, mRNA, complete cds, acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1083	23700	AA956382	ff	acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)	Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone MGC:39067 IMAGE:5365469, mRNA, complete cds, acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)
3046	23698	NM_012489	o, xx	acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)	Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone MGC:39067 IMAGE:5365469, mRNA, complete cds, acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)
3046	23699	NM_012489	o, u, v, ss	acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)	Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone MGC:39067 IMAGE:5365469, mRNA, complete cds, acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase), acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)
3149	6780	NM_012819	n	acetyl-Coenzyme A dehydrogenase, long-chain, acyl-Coenzyme A dehydrogenase, long chain	acetyl-Coenzyme A dehydrogenase, long-chain, acyl-Coenzyme A dehydrogenase, long chain
3282	21078	NM_016986	l, o, ss	acetyl-Coenzyme A dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain	ESTs, Highly similar to ACYL-COA DEHYDROGENASE, MEDIUM-CHAIN SPECIFIC PRECURSOR [M.musculus], acetyl-Coenzyme A dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain
3284	24649	NM_016988	b, e, l, w, General	acid phosphatase 2, lysosomal	ESTs, Weakly similar to A33395 acid phosphatase (EC 3.1.3.2) precursor - rat [R.norvegicus], acid phosphatase 2, lysosomal, acid phosphatase, testicular
2706	19995	AI235320	p, t	aconitase 2, mitochondrial	aconitase 2, mitochondrial
3681	19993	NM_024398	o, xx	aconitase 2, mitochondrial	aconitase 2, mitochondrial
4090	19991	NM_053961	cc	aconitase 2, mitochondrial	aconitase 2, mitochondrial
3705	21165	NM_031005	mm	actinin, alpha 1	ESTs, Weakly similar to alpha actinin 4 [Mus musculus] [M.musculus], RIKEN cDNA 3110023F10 gene, actinin alpha 2, actinin alpha 3, actinin, alpha 1, actinin, alpha 2, actinin, alpha 3, alpha actinin 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3705	21166	NM_031005	t, mm	actinin, alpha 1	ESTs, Weakly similar to alpha actinin 4 [Mus musculus] [M.musculus], RIKEN cDNA 3110023F10 gene, actinin alpha 2, actinin alpha 3, actinin, alpha 1, actinin, alpha 2, actinin, alpha 3, alpha actinin 4
3853	5358	NM_031675	t, ee, mm	actinin, alpha 4, alpha actinin 4	ESTs, Weakly similar to alpha actinin 4 [Mus musculus] [M.musculus], RIKEN cDNA 3110023F10 gene, actinin, alpha 4, alpha actinin 4
3175	24431	NM_012912	c, n, General, kk, tt	activating transcription factor 3	ESTs, Weakly similar to A39382 liver regeneration factor LRF1 - rat [R.norvegicus], ESTs, Weakly similar to A54025 transcription factor ATF3 [H.sapiens], activating transcription factor 3
3168	16721	NM_012891	o, General, cc, kk, uu	acyl-Coenzyme A dehydrogenase, very long chain	EST, Moderately similar to ACYL-COA DEHYDROGENASE, VERY-LONG-CHAIN SPECIFIC [M.musculus], EST, Weakly similar to ACDV_RAT Acyl-CoA dehydrogenase, very-long-chain specific, mitochondrial precursor (VLCAD) [R.norvegicus], EST, Weakly similar to S54183 acyl-CoA dehydrogenase [H.sapiens], ESTs, Weakly similar to ACDV_RAT Acyl-CoA dehydrogenase, very-long-chain specific, mitochondrial precursor (VLCAD) [R.norvegicus], RIKEN cDNA 2600017P15 gene, acyl-Coenzyme A dehydrogenase, very long chain
1496	17957	AI028975	d	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 1, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 1, beta 1 subunit
3390	17959	NM_017277	w	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 1, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 1, beta 1 subunit
4133	17956	NM_080583	m, vv	adaptor-related protein complex 2, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 2, beta 1 subunit
4133	17958	NM_080583	ff, xx	adaptor-related protein complex 2, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 2, beta 1 subunit
3346	595	NM_017161	bb, mm	adenosine A2b receptor	EST, Weakly similar to JC1229 adenosine receptor A2b [H.sapiens], adenosine A2b receptor
3170	631	NM_012896	g, ss	adenosine A3 receptor	
3706	91	NM_031006	ll	adenosine deaminase, RNA-specific	adenosine deaminase, RNA-specific, expressed sequence AV242451

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3169	16708	NM_012895	a, b, h, w	adenosine kinase	adenosine kinase, expressed sequence AI987814
3707	997	NM_031007	u	adenylate cyclase 2, adenylate cyclase 2 (brain)	EST, Moderately similar to B Chain B, Complex Of Gs-Alpha With The Catalytic Domains Of Mammalian Adenylyl Cyclase: Complex With Beta-L-2',3'-Dideoxyatp And Mg [R.norvegicus], ESTs, Highly similar to ADENYLATE CYCLASE, TYPE VII [M.musculus], ESTs, Weakly similar to ADENYLATE CYCLASE, TYPE VII [M.musculus], adenylate cyclase 2 (brain), adenylate cyclase 4, adenylate cyclase 7
3444	24019	NM_019186	ss, tt	ADP-ribosylation factor-like 4, ADP-ribosylation-like 4	ADP-ribosylation factor 4-like, ADP-ribosylation factor-like 7, ADP-ribosylation-like 4, ESTs, Weakly similar to ADP-ribosylation-like 4 [Mus musculus] [M.musculus], Mus musculus, Similar to ADP-ribosylation-like 4, clone MGC:5774 IMAGE:3599701, mRNA, complete cds, RIKEN cDNA 1110036H21 gene, epithelial protein lost in neoplasm beta
3137	1348	NM_012776	m	adrenergic receptor kinase, beta 1, adrenergic, beta, receptor kinase 1	ESTs, Weakly similar to GRK6 MOUSE G PROTEIN-COUPLED RECEPTOR KINASE GRK6 [M.musculus]; G protein-coupled receptor kinase 6, adrenergic receptor kinase, beta 1, adrenergic, beta, receptor kinase 1
3137	1349	NM_012776	ii, rr	adrenergic receptor kinase, beta 1, adrenergic, beta, receptor kinase 1	ESTs, Weakly similar to GRK6 MOUSE G PROTEIN-COUPLED RECEPTOR KINASE GRK6 [M.musculus], G protein-coupled receptor kinase 6, adrenergic receptor kinase, beta 1, adrenergic, beta, receptor kinase 1
3685	1835	NM_024483	e	adrenergic receptor, alpha 1d, adrenergic, alpha-1D-, receptor	Mus musculus histamine H4 receptor mRNA, complete cds, adrenergic, alpha-1D-, receptor
2347	13558	A1177901	k	adrenergic receptor, beta 1, adrenergic, beta-1-, receptor	G protein-coupled receptor 45, adrenergic receptor, beta 1, adrenergic, beta-1-, receptor
3122	322	NM_012715	p, t, ff, ii, pp, xx	adrenomedullin	adrenomedullin



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3028	10743	M64780	I, p, z, General	agrin	ESTs, Weakly similar to A38096 perlecan precursor [H.sapiens], ESTs, Weakly similar to AGRT agrin - rat [R.norvegicus], ESTs, Weakly similar to BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR [M.musculus], ESTs, Weakly similar to PGBM_HUMAN BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR [H.sapiens], Mus musculus, clone IMAGE:3494258, mRNA, partial cds, heparan sulfate proteoglycan 2 (perlecan), perlecan (heparan sulfate proteoglycan 2), serine protease inhibitor, Kazal type, 5, sialoadhesin, transmembrane protein with EGF-like and two follistatin-like domains 1
3028	10744	M64780	I, p, z, General, ii, nn, rr	agrin	ESTs, Weakly similar to A38096 perlecan precursor [H.sapiens], ESTs, Weakly similar to AGRT agrin - rat [R.norvegicus], ESTs, Weakly similar to BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR [M.musculus], ESTs, Weakly similar to PGBM_HUMAN BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR [H.sapiens], Mus musculus, clone IMAGE:3494258, mRNA, partial cds, heparan sulfate proteoglycan 2 (perlecan), perlecan (heparan sulfate proteoglycan 2), serine protease inhibitor, Kazal type, 5, sialoadhesin, transmembrane protein with EGF-like and two follistatin-like domains 1
3524	23424	NM_021680	x, z	alanyl-tRNA synthetase	alanyl-tRNA synthetase
445	17111	AA860062	ee	albumin, albumin 1	ESTs, Moderately similar to ALBU_RAT Serum albumin precursor [Contains: Neurotensin-related peptide (NRP)] [R.norvegicus], albumin, albumin 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4206	17112	NM_134326	ee	albumin, albumin 1, glutathione peroxidase 1	ESTs, Moderately similar to ALBU_RAT Serum albumin precursor [Contains: Neurotensin-related peptide (NRP)] [R.norvegicus], ESTs, Weakly similar to GSHC_RAT Glutathione peroxidase (GSHPX-1) (Cellular glutathione peroxidase) [R.norvegicus], albumin, albumin 1, glutathione peroxidase 1, glutathione peroxidase 2, glutathione peroxidase 2 (gastrintestinal)
3477	22219	NM_019286	c, vv	alcohol dehydrogenase 1, complex, alcohol dehydrogenase 1A (class I), alpha polypeptide	ESTs, Weakly similar to ADHA MOUSE ALCOHOL DEHYDROGENASE A CHAIN [M.musculus], alcohol dehydrogenase 1, complex, alcohol dehydrogenase 1A (class I), alpha polypeptide, alcohol dehydrogenase IB (class I), beta polypeptide
4159	22220	NM_130780	vv	alcohol dehydrogenase 1, complex, alcohol dehydrogenase 1A (class I), alpha polypeptide	ESTs, Weakly similar to ADHA MOUSE ALCOHOL DEHYDROGENASE A CHAIN [M.musculus], alcohol dehydrogenase 1, complex, alcohol dehydrogenase 1A (class I), alpha polypeptide, alcohol dehydrogenase IB (class I), beta polypeptide
3570	20915	NM_022407	b, ff	aldehyde dehydrogenase 1 family, member A1, aldehyde dehydrogenase family 1, subfamily A1	Mus musculus, Similar to aldehyde dehydrogenase 8 family, member A1, clone IMAGE:4234742, mRNA, partial cds, aldehyde dehydrogenase 1 family, member A1, aldehyde dehydrogenase family 1, subfamily A1
3934	12299	NM_032416	a, General	aldehyde dehydrogenase 2 family (mitochondrial), aldehyde dehydrogenase 2, mitochondrial	ESTs, Moderately similar to DHAM_RAT ALDEHYDE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR (ALDH CLASS 2) (ALDH1) (ALDH-E2) [R.norvegicus], RIKEN cDNA 2410004H02 gene, aldehyde dehydrogenase 1 family, member B1, aldehyde dehydrogenase 2 family (mitochondrial), aldehyde dehydrogenase 2, mitochondrial
3873	23883	NM_031731	n, General, ee	aldehyde dehydrogenase 3 family, member A2, aldehyde dehydrogenase family 3, subfamily A2	RIKEN cDNA 1700001N19 gene, RIKEN cDNA 1700055N04 gene, aldehyde dehydrogenase 3 family, member A2, aldehyde dehydrogenase family 3, subfamily A2, expressed sequence A1848594

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3873	23884	NM_031731	ii	aldehyde dehydrogenase 3 family, member A2, aldehyde dehydrogenase family 3, subfamily A2	RIKEN cDNA 1700001N19 gene, RIKEN cDNA 1700055N04 gene, aldehyde dehydrogenase 3 family, member A2, aldehyde dehydrogenase family 3, subfamily A2, expressed sequence A1848594
166	11901	AA801058	i, nn	aldehyde dehydrogenase 9 family, member A1, aldehyde dehydrogenase 9, subfamily A1	Mus musculus, Similar to aldehyde dehydrogenase 4 family, member A1, clone IMAGE:5102023, mRNA, partial cds, RIKEN cDNA 1110038I05 gene, aldehyde dehydrogenase 4 family, member A1, aldehyde dehydrogenase 9 family, member A1, aldehyde dehydrogenase 9, subfamily A1
3048	7062	NM_012495	t, bb, mm	aldolase 1, A isoform, aldolase A, fructose-bisphosphate	EST, Moderately similar to ADHUA fructose-bisphosphate aldolase [H.sapiens], EST, Weakly similar to ADHUA fructose-bisphosphate aldolase [H.sapiens], ESTs, Highly similar to I39435 fructose-bisphosphate aldolase [H.sapiens], ESTs, Moderately similar to aldolase A [M.musculus], ESTs, Weakly similar to ALFA_HUMAN FRUCTOSE-BISPHOSPHATE ALDOLASE A [H.sapiens], Mus musculus, clone MGC:25455 IMAGE:4241025, mRNA, complete cds, RIKEN cDNA 4933425L11 gene, aldolase 1, A isoform, aldolase 3, C isoform, aldolase A, fructose-bisphosphate
3048	7064	NM_012495	s	aldolase 1, A isoform, aldolase A, fructose-bisphosphate	EST, Moderately similar to ADHUA fructose-bisphosphate aldolase [H.sapiens], EST, Weakly similar to ADHUA fructose-bisphosphate aldolase [H.sapiens], ESTs, Highly similar to I39435 fructose-bisphosphate aldolase [H.sapiens], ESTs, Moderately similar to aldolase A [M.musculus], ESTs, Weakly similar to ALFA_HUMAN FRUCTOSE-BISPHOSPHATE ALDOLASE A [H.sapiens], Mus musculus, clone MGC:25455 IMAGE:4241025, mRNA, complete cds, RIKEN cDNA 4933425L11 gene, aldolase 1, A isoform, aldolase 3, C isoform, aldolase A, fructose-bisphosphate
624	820	AA892395	a, s, ss, uu	aldolase 2, B isoform, aldolase B, fructose-bisphosphate	Mus musculus, clone MGC:25455 IMAGE:4241025, mRNA, complete cds, aldolase 1, A isoform, aldolase 3, C isoform, aldolase B, fructose-bisphosphate

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4404	818	X02291	a, s, ff, qq, tt, uu	aldolase 2, B isoform, aldolase B, fructose-bisphosphate	Mus musculus, clone MGC:25455 IMAGE:4241025, mRNA, complete cds, aldolase 1, A isoform, aldolase 3, C isoform, aldolase B, fructose-bisphosphate
3049	1655	NM_012497	n	aldolase 3, C isoform, aldolase C, fructose-bisphosphate	Mus musculus, clone MGC:25455 IMAGE:4241025, mRNA, complete cds, aldolase 1, A isoform, aldolase 3, C isoform, aldolase C, fructose-bisphosphate
1202	16625	AA998062	j	Alg5, S. cerevisiae, homolog of	Alg5, S. cerevisiae, homolog of
3173	7897	NM_012901	u	alpha 1 microglobulin/bikunin, alpha-1-microglobulin/bikunin precursor	RIKEN cDNA 1700013L23 gene, WAP, FS, Ig, KU, and NTR-containing protein, alpha 1 microglobulin/bikunin, alpha-1-microglobulin/bikunin precursor, complement component 8, gamma polypeptide, serine protease inhibitor, Kunitz type 2
3173	7898	NM_012901	e, r	alpha 1 microglobulin/bikunin, alpha-1-microglobulin/bikunin precursor	RIKEN cDNA 1700013L23 gene, WAP, FS, Ig, KU, and NTR-containing protein, alpha 1 microglobulin/bikunin, alpha-1-microglobulin/bikunin precursor, complement component 8, gamma polypeptide, serine protease inhibitor, Kunitz type 2
3173	7899	NM_012901	e	alpha 1 microglobulin/bikunin, alpha-1-microglobulin/bikunin precursor	RIKEN cDNA 1700013L23 gene, WAP, FS, Ig, KU, and NTR-containing protein, alpha 1 microglobulin/bikunin, alpha-1-microglobulin/bikunin precursor, complement component 8, gamma polypeptide, serine protease inhibitor, Kunitz type 2
3151	20586	NM_012826	a, m, vv	alpha-2-glycoprotein 1, zinc	UL16 binding protein 1, UL16 binding protein 2, alpha-2-glycoprotein 1, zinc
3151	20587	NM_012826	v, vv	alpha-2-glycoprotein 1, zinc	UL16 binding protein 1, UL16 binding protein 2, alpha-2-glycoprotein 1, zinc
3171	16273	NM_012898	k	alpha-2-HS-glycoprotein	alpha-2-HS-glycoprotein
3171	16274	NM_012898	r	alpha-2-HS-glycoprotein	alpha-2-HS-glycoprotein
3171	16275	NM_012898	r, ee	alpha-2-HS-glycoprotein	alpha-2-HS-glycoprotein
3045	22513	NM_012488	nn	alpha-2-macroglobulin	ESTs, Highly similar to A2MG_RAT ALPHA-2-MACROGLOBULIN PRECURSOR (ALPHA-2-M) [R.norvegicus], ESTs, Weakly similar to A2MG_MOUSE ALPHA-2-MACROGLOBULIN PRECURSOR [M.musculus], alpha-2-macroglobulin, murinoglobulin 1, pregnancy-zone protein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3147	15032	NM_012816	t	alpha-methylacyl-CoA racemase	alpha-methylacyl-CoA racemase, cDNA sequence AF397014, chromosome 7 open reading frame 10
4324	1937	R46934	k	amelogenin, amelogenin (X chromosome, amelogenesis imperfecta 1)	
4389	25083	U72632	nn	amine oxidase, copper containing 3, amine oxidase, copper containing 3 (vascular adhesion protein 1)	
3172	18564	NM_012899	k, w	aminolevulinate, delta-, dehydratase	aminolevulinate, delta-, dehydratase
3686	21039	NM_024484	ii	aminolevulinate, delta-, synthase 1, aminolevulinic acid synthase 1	aminolevulinate, delta-, synthase 1, aminolevulinic acid synthase 1, aminolevulinic acid synthase 2, erythroid, serine palmitoyltransferase, long chain base subunit 1, serine palmitoyltransferase, long chain base subunit 2
3452	2078	NM_019220	p, s, pp	amino-terminal enhancer of split	amino-terminal enhancer of split
3452	2079	NM_019220	z	amino-terminal enhancer of split	amino-terminal enhancer of split
3808	1504	NM_031544	a, l, General, uu	AMP deaminase 3, adenosine monophosphate deaminase (isoform E)	AMP deaminase 3, RIKEN cDNA 1200014F01 gene, adenosine monophosphate deaminase (isoform E), expressed sequence A1553520
3795	24645	NM_031502	a, d, k, l, dd, uu	amylase 1, salivary, amylase, alpha 1A; salivary	ESTs, Moderately similar to AMYP_HUMAN ALPHA-AMYLASE, PANCREATIC PRECURSOR [H.sapiens], amylase 1, salivary, amylase 2, pancreatic, amylase, alpha 1A; salivary, amylase, alpha 2A; pancreatic
250	10157	AA819527	rr	amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	ESTs, Highly similar to I39451 amyloid-beta protein [H.sapiens], ESTs, Weakly similar to S23094 beta-amyloid protein precursor - rat [R.norvegicus], amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)
2352	10156	A1178039	bb	amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	ESTs, Highly similar to I39451 amyloid-beta protein [H.sapiens], ESTs, Weakly similar to S23094 beta-amyloid protein precursor - rat [R.norvegicus], amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4410	10154	X07648	m	amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	ESTs, Highly similar to I39451 amyloid-beta protein [H.sapiens], ESTs, Weakly similar to S23094 beta-amyloid protein precursor - rat [R.norvegicus], amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)
4387	11	U70210	g	amyloid beta (A4) precursor protein-binding, family B, member 2 (Fe65-like)	Homo sapiens cDNA: FLJ21218 fis, clone COL00537, Mus musculus, Similar to amyloid beta (A4) precursor protein-binding, family B, member 3, clone MGC:38710 IMAGE:5357681, mRNA, complete cds, amyloid beta (A4) precursor protein-binding, family B, member 1, amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65), amyloid beta (A4) precursor protein-binding, family B, member 2 (Fe65-like), amyloid beta (A4) precursor protein-binding, family B, member 3
4463	11260	X77934	t, mm	amyloid beta (A4) precursor-like protein 2	ESTs, Weakly similar to 2019243A amyloid precursor-like protein 2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to EPPI_MOUSE Eppin precursor [M.musculus], amyloid beta (A4) precursor-like protein 1, amyloid beta (A4) precursor-like protein 2
3349	8182	NM_017170	a, bb	amyloid P component, serum, serum amyloid P-component	EST, Weakly similar to S11473 serum amyloid P-component - rat [R.norvegicus], EST, Weakly similar to SAMP MOUSE SERUM AMYLOID P-COMPONENT PRECURSOR [M.musculus], ESTs, Weakly similar to SAMP_HUMAN SERUM AMYLOID P-COMPONENT PRECURSOR [H.sapiens], amyloid P component, serum
3066	225	NM_012544	j	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1, angiotensin converting enzyme	ESTs, Highly similar to A31759 peptidyl-dipeptidase A [H.sapiens], RIKEN cDNA 2010305L05 gene, angiotensin I converting enzyme (peptidyl-dipeptidase A) 1, angiotensin converting enzyme
3047	265	NM_012494	gg, hh, jj	angiotensin II receptor, type 2, angiotensin receptor 2	angiotensin II receptor, type 2, angiotensin receptor 2
2985	21097	M12112	s	angiotensinogen, angiotensinogen (serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 8)	angiotensinogen, angiotensinogen (serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 8)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4222	21098	NM_134432	qq	angiotensinogen, angiotensinogen (serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 8)	angiotensinogen, angiotensinogen (serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 8)
2348	15315	AI177911	x	annexin A2	annexin A2, annexin A9
3507	574	NM_019905	m	annexin A2, hydroxyacid oxidase (glycolate oxidase) 3, hydroxyacid oxidase 3 (medium-chain)	EST, Moderately similar to 0806162C protein COI [M.musculus], EST, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to 0806162C protein COI [M.musculus], ESTs, Highly similar to hydroxyacid oxidase 3 (medium-chain) [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI [M.musculus], annexin A2, annexin A9, hydroxyacid oxidase (glycolate oxidase) 3, hydroxyacid oxidase 1, liver
3661	561	NM_024156	nn	annexin A6	annexin A6
3703	248	NM_030998	gg, hh	anti-Mullerian hormone receptor, type II, anti-Mullerian hormone type 2 receptor	
4002	19252	NM_053576	x	anti-oxidant protein 2 (non-selenium glutathione peroxidase, acidic calcium-independent phospholipase A2), peroxiredoxin 5	ESTs, Moderately similar to AOP2 MOUSE ANTIOXIDANT PROTEIN 2 [M.musculus], ESTs, Moderately similar to AOP2_HUMAN ANTIOXIDANT PROTEIN 2 [H.sapiens], anti oxidant protein 2 (non-selenium glutathione peroxidase, acidic calcium-independent phospholipase A2), peroxiredoxin 5
3834	12132	NM_031612	ss	apelin, apelin; peptide ligand for APJ receptor	apelin, apelin; peptide ligand for APJ receptor
3657	20801	NM_024148	m, cc, oo, uu, ww	APEX nuclease (multifunctional DNA repair enzyme), apurinic/aprimidinic endonuclease	APEX nuclease (multifunctional DNA repair enzyme), Mus musculus ape2 mRNA for AP endonuclease 2, complete cds, apurinic/aprimidinic endonuclease
3130	426	NM_012738	l, General, cc, nn, vv	apolipoprotein A-I	ESTs, Weakly similar to apolipoprotein A-I [Rattus norvegicus] [R.norvegicus], apolipoprotein A-I
3130	427	NM_012738	f, l, x, General, nn, vv	apolipoprotein A-I	ESTs, Weakly similar to apolipoprotein A-I [Rattus norvegicus] [R.norvegicus], apolipoprotein A-I

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3129	5317	NM_012737	d, p, w, ee, mm	apolipoprotein A-IV	
3174	23	NM_012907	ii	apolipoprotein B editing complex 1, apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1	ESTs, Weakly similar to I59577 apolipoprotein B mRNA editing enzyme, catalytic chain 1 (EC 3.5.4.-) - rat [R.norvegicus], activation-induced cytidine deaminase, apolipoprotein B editing complex 1, apolipoprotein B editing complex 2, apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1, hypothetical protein, MGC:7002, phorbolin (similar to apolipoprotein B mRNA editing protein)
3007	16930	M27440	h, o, ss, vv	apolipoprotein B, apolipoprotein B (including Ag(x) antigen)	ESTs, Highly similar to 1207169A lipoprotein B [H.sapiens], apolipoprotein B (including Ag(x) antigen), expressed sequence A1315052
3051	17787	NM_012501	ee	apolipoprotein C-III	apolipoprotein C-III, apolipoprotein CIII
4241	16400	NM_138828	m, x	apolipoprotein E	apolipoprotein E
3437	21090	NM_019158	General, dd, ff, nn	aquaporin 8	aquaporin 8
3642	15755	NM_022960	k	aquaporin 9	
3330	24693	NM_017134	a, b, l, General, cc	arginase 1, liver, arginase, liver	arginase 1, liver, arginase, liver
3285	24868	NM_016992	nn	arginine vasopressin, arginine vasopressin (neurophysin II, antidiuretic hormone, diabetes insipidus, neurohypophyseal)	arginine vasopressin, arginine vasopressin (neurophysin II, antidiuretic hormone, diabetes insipidus, neurohypophyseal)
3285	24869	NM_016992	g	arginine vasopressin, arginine vasopressin (neurophysin II, antidiuretic hormone, diabetes insipidus, neurohypophyseal)	arginine vasopressin, arginine vasopressin (neurophysin II, antidiuretic hormone, diabetes insipidus, neurohypophyseal)
4412	20597	X12459	b, ff	argininosuccinate synthetase, argininosuccinate synthetase 1	argininosuccinate synthetase, argininosuccinate synthetase 1, expressed sequence AA408052



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1251	4307	AB012600	s	aryl hydrocarbon receptor nuclear translocator-like	Aryl hydrocarbon receptor nuclear translocator 1, Aryl hydrocarbon receptor nuclear translocator 2, ESTs, Highly similar to aryl hydrocarbon receptor nuclear translocator-like [Mus musculus] [M.musculus], Mus musculus brain-muscle-ARNT-like protein 2b mRNA, complete cds; alternatively spliced, aryl hydrocarbon receptor nuclear translocator, aryl hydrocarbon receptor nuclear translocator 2, aryl hydrocarbon receptor nuclear translocator-like
1259	4308	AF015953	ww	aryl hydrocarbon receptor nuclear translocator-like	Aryl hydrocarbon receptor nuclear translocator 1, Aryl hydrocarbon receptor nuclear translocator 2, ESTs, Highly similar to aryl hydrocarbon receptor nuclear translocator-like [Mus musculus] [M.musculus], Mus musculus brain-muscle-ARNT-like protein 2b mRNA, complete cds; alternatively spliced, aryl hydrocarbon receptor nuclear translocator, aryl hydrocarbon receptor nuclear translocator 2, aryl hydrocarbon receptor nuclear translocator-like
3148	326	NM_012818	ss	arylalkylamine N-acetyltransferase	arylalkylamine N-acetyltransferase
2897	935	D49434	bb, ww	arylsulfatase B	ESTs, Highly similar to [Segment 2 of 2] ARYLSULFATASE B [M.musculus], ESTs, Weakly similar to ARSB RAT ARYLSULFATASE B [R.norvegicus], Mus musculus, clone IMAGE:3991175, mRNA, partial cds, RIKEN cDNA 1110007C02 gene, arylsulfatase B, hypothetical protein FLJ23548
3052	20153	NM_012503	b, g, v	asialoglycoprotein receptor 1	C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 11, ESTs, Weakly similar to LECH_RAT ASIALOGLYCOPROTEIN RECEPTOR 1 (HEPATIC LECTIN 1) (RHL-1) (ASGP-R) (ASGPR) [R.norvegicus], asialoglycoprotein receptor 1, macrophage lectin 2 (calcium dependent)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3356	24670	NM_017189	a, n	asialoglycoprotein receptor 2	C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 6, C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 7, C-type lectin related f, RIKEN cDNA 1810029C22 gene, asialoglycoprotein receptor 2
3233	1583	NM_013079	a, m, s, General, dd	asparagine synthetase	
3283	15612	NM_016987	ee	ATP citrate lyase	ATP citrate lyase, EST, Moderately similar to SUCA_MOUSE SUCCINYL-COA LIGASE [GDP-FORMING] ALPHA-CHAIN, MITOCHONDRIAL PRECURSOR (SUCCINYL-COA SYNTHETASE, ALPHA CHAIN) (SCS-ALPHA) [M.musculus], expressed sequence AW538652, succinate-CoA ligase, GDP-forming, alpha subunit
3283	15613	NM_016987	ii, ll, ww	ATP citrate lyase	ATP citrate lyase, EST, Moderately similar to SUCA_MOUSE SUCCINYL-COA LIGASE [GDP-FORMING] ALPHA-CHAIN, MITOCHONDRIAL PRECURSOR (SUCCINYL-COA SYNTHETASE, ALPHA CHAIN) (SCS-ALPHA) [M.musculus], expressed sequence AW538652, succinate-CoA ligase, GDP-forming, alpha subunit
3406	16844	NM_017311	r	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1, ESTs, Highly similar to AT91_HUMAN ATP SYNTHASE LIPID-BINDING PROTEIN P1 PRECURSOR [H.sapiens], Homo sapiens cDNA: FLJ23586 fis, clone LNG14376
4271	17203	NM_139099	pp	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit, RIKEN cDNA 2410043G19 gene, expressed sequence AV000645
4271	17204	NM_139099	p, x, mm	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit, RIKEN cDNA 2410043G19 gene, expressed sequence AV000645
3398	12347	NM_017290	jj	ATPase, Ca <sup>++</sup> transporting, cardiac muscle, slow twitch 2	
3398	12348	NM_017290	ff, pp	ATPase, Ca <sup>++</sup> transporting, cardiac muscle, slow twitch 2	
3398	12349	NM_017290	l	ATPase, Ca <sup>++</sup> transporting, cardiac muscle, slow twitch 2	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3043	17991	M96626	g	ATPase, Ca++ transporting, plasma membrane 3	ATPase, Ca++ transporting, plasma membrane 2, ATPase, Class V, type 10C, ATPase, class V, type 10A, ESTs; Highly similar to A34308 Ca2+-transporting ATPase [R.norvegicus], ESTs, Weakly similar to I49143 gastric H(+)-K(+)-ATPase alpha subunit - mouse [M.musculus], RIKEN cDNA 1110019I14 gene, RIKEN cDNA 2810442I22 gene
3177	24783	NM_012914	p	ATPase, Ca++ transporting, ubiquitous	ATPase, Ca++ transporting, ubiquitous
4396	1359	U78977	mm	ATPase, Class II, type 9A, ATPase, class II, type 9A	ATPase, Class II, type 9A, EST, Highly similar to AT2A_HUMAN POTENTIAL PHOSPHOLIPID-TRANSPORTING ATPASE IIA [H.sapiens], ESTs, Moderately similar to AT2A_HUMAN POTENTIAL PHOSPHOLIPID-TRANSPORTING ATPASE IIA [H.sapiens], ESTs, Weakly similar to AT2A_HUMAN POTENTIAL PHOSPHOLIPID-TRANSPORTING ATPASE IIA [H.sapiens], Homo sapiens mRNA; cDNA DKFZp586I0624 (from clone DKFZp586I0624)
82	16346	AA799824	a, e, f, s, General, kk, oo	ATPase, H+ transporting, lysosomal 42kD, V1 subunit C, isoform 1	ATPase, H+ transporting, lysosomal 42kD, V1 subunit C, isoform 1, RIKEN cDNA 1110038G14 gene
913	10569	AA942681	n, z, General	ATPase, H+ transporting, lysosomal 50/57kD V1 subunit H	ATPase, H+ transporting, lysosomal 50/57kD V1 subunit H
3053	15675	NM_012504	General	ATPase, Na+/K+ transporting, alpha 1 polypeptide	ATPase, Na+/K+ transporting, alpha 1 polypeptide, ATPase, Na+/K+ transporting, alpha 4 polypeptide, Mus musculus, Similar to ATPase, Na+/K+ transporting, alpha 1a.1 polypeptide, clone IMAGE:3599053, mRNA, partial cds
3053	15677	NM_012504	General, mm	ATPase, Na+/K+ transporting, alpha 1 polypeptide	ATPase, Na+/K+ transporting, alpha 1 polypeptide, ATPase, Na+/K+ transporting, alpha 4 polypeptide, Mus musculus, Similar to ATPase, Na+/K+ transporting, alpha 1a.1 polypeptide, clone IMAGE:3599053, mRNA, partial cds
3054	855	NM_012507	II	ATPase, Na+/K+ transporting, beta 2 polypeptide	ATPase, Na+/K+ transporting, beta 2 polypeptide

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3176	20590	NM_012913	n, kk	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide, ESTs, Highly similar to ATND_HUMAN SODIUM/POTASSIUM-TRANSPORTING ATPASE BETA-3 CHAIN [H.sapiens], expressed sequence A1664000
3112	24453	NM_012690	a, s	ATP-binding cassette, sub-family B (MDR/TAP), member 1A, ATP-binding cassette, sub-family B (MDR/TAP), member 4	ATP-binding cassette, sub-family B (MDR/TAP), member 4, ESTs, Highly similar to MDR3_HUMAN MULTIDRUG RESISTANCE PROTEIN 3 [H.sapiens], ESTs, Weakly similar to B54774 ATP binding cassette transporter ABC2 - human [M.musculus], Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810428N17:ATP-binding cassette, sub-family B (MDR/TAP), member 10, full insert sequence
4434	1037	X57523	a, qq	ATP-binding cassette, sub-family B (MDR/TAP), member 2, transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	ATP-binding cassette, sub-family B (MDR/TAP), member 2, ESTs, Highly similar to S13426 multidrug resistance protein homolog - rat [R.norvegicus], transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
3712	15700	NM_031013	k	ATP-binding cassette, sub-family C (CFTR/MRP), member 6	ATP-binding cassette, sub-family C (CFTR/MRP), member 6
3219	730	NM_013040	cc	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9, ESTs, Weakly similar to T42751 sulfonylurea receptor 2 - rat [R.norvegicus], Homo sapiens cDNA FLJ31957 fis, clone NT2RP7007381, highly similar to Sulfonylurea receptor 2A, Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330439B14:ATP-binding cassette, sub-family C (CFTR/MRP), member 9, full insert sequence
3146	21729	NM_012804	o, ff	ATP-binding cassette, sub-family D (ALD), member 3	ATP-binding cassette, sub-family D (ALD), member 3, ATP-binding cassette, sub-family D (ALD), member 4, ESTs, Weakly similar to A35723 70K peroxisomal membrane protein - rat [R.norvegicus]
3146	21730	NM_012804	o, v	ATP-binding cassette, sub-family D (ALD), member 3	ATP-binding cassette, sub-family D (ALD), member 3, ATP-binding cassette, sub-family D (ALD), member 4, ESTs, Weakly similar to A35723 70K peroxisomal membrane protein - rat [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
252	6288	AA819554	ww	BAI1-associated protein 2, brain-specific angiogenesis inhibitor 1-associated protein 2	BAI1-associated protein 2, ESTs, Weakly similar to brain-specific angiogenesis inhibitor 1-associated protein 2 [Mus musculus] [M.musculus], Mus musculus, Similar to KIAA0429 gene product, clone IMAGE:2811240, mRNA, partial cds, RIKEN cDNA 1300006M19 gene, brain-specific angiogenesis inhibitor 1-associated protein 2, hypothetical protein FLJ22582, insulin receptor tyrosine kinase substrate
3958	1063	NM_053328	p, t, ff	basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B2	basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 3, basic helix-loop-helix domain containing, class B2, basic helix-loop-helix domain containing, class B3
3139	11938	NM_012783	x	basigin, basigin (OK blood group)	ESTs, Weakly similar to A46506 leukocyte activation antigen M6 [H.sapiens], Mus musculus, Similar to spindle pole body protein, clone IMAGE:5324982, mRNA, partial cds, basigin, basigin (OK blood group), spindle pole body protein
3286	24897	NM_016993	pp	B-cell CLL/lymphoma 2, B-cell leukemia/lymphoma 2	
3383	19	NM_017258	s, ss, tt	B-cell translocation gene 1, anti-proliferative	B-cell translocation gene 1, anti-proliferative, Homo sapiens cDNA FLJ30547 fis, clone.BRAWH2001439, transducer of ERBB2, 1, transducer of ERBB2, 2, transducer of ErbB-2.1
3384	15300	NM_017259	n, p, rr	B-cell translocation gene 2, anti-proliferative, BTG family, member 2	B-cell translocation gene 2, anti-proliferative, B-cell translocation gene 4, BTG family, member 2, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN PRECURSOR [H.sapiens]
3384	15301	NM_017259	n, p, ss, tt	B-cell translocation gene 2, anti-proliferative, BTG family, member 2	B-cell translocation gene 2, anti-proliferative, B-cell translocation gene 4, BTG family, member 2, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN PRECURSOR [H.sapiens]
3384	15299	NM_017259	p	B-cell translocation gene 2, anti-proliferative, BTG family, member 2	B-cell translocation gene 2, anti-proliferative, B-cell translocation gene 4, BTG family, member 2, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN PRECURSOR [H.sapiens]
3306	910	NM_017059	bb, ss	BCL2-associated X protein, Bcl2-associated X protein	
3306	911	NM_017059	ss	BCL2-associated X protein, Bcl2-associated X protein	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3306	912	NM_017059	qq	BCL2-associated X protein, Bcl2-associated X protein	
3056	7427	NM_012515	ll	benzodiazepine receptor (peripheral), benzodiazepine receptor, peripheral	ESTs, Weakly similar to I38724 mitochondrial benzodiazepine receptor [H.sapiens], benzodiazepine receptor (peripheral), benzodiazepine receptor, peripheral
3465	1450	NM_019251	x	BET1 homolog (S. cerevisiae), blocked early in transport 1 homolog (S. cerevisiae)	BET1 homolog (S. cerevisiae), blocked early in transport 1 homolog (S. cerevisiae)
3294	17815	NM_017015	p, r, w, z	beta-glucuronidase, glucuronidase, beta	ESTs, Highly similar to A26581 beta-glucuronidase [H.sapiens], SMA3, beta-glucuronidase structural, glucuronidase, beta
3401	1531	NM_017300	General, ff, rr, uu	bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase), bile acid Coenzyme A: amino acid N-acyltransferase	ESTs, Weakly similar to YZ28_HUMAN HYPOTHETICAL PROTEIN ZAP128 [H.sapiens], Mus musculus, Similar to bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase), clone MGC:19156 IMAGE:4220620, mRNA, complete cds, bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase), bile acid-Coenzyme A: amino acid N-acyltransferase, expressed sequence A1118337
3353	3174	NM_017178	qq	bone morphogenetic protein 2	ESTs, Highly similar to BMP2_RAT Bone morphogenetic protein 2 precursor (BMP-2) (BMP-2A) [R.norvegicus], ESTs, Weakly similar to GDF3 MOUSE GROWTH/DIFFERENTIATION FACTOR 3 PRECURSOR [M.musculus], bone morphogenetic protein 2, growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) nodal
3274	397	NM_013214	o	brain acyl-CoA hydrolase	
3274	20851	NM_013214	jj	brain acyl-CoA hydrolase	
805	23038	AA900881	t, mm	branched chain aminotransferase 1, cytosolic	branched chain aminotransferase 1, cytosolic
3381	23037	NM_017253	t, mm	branched chain aminotransferase 1, cytosolic	branched chain aminotransferase 1, cytosolic

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3786	3519	NM_031334	h, o, dd	cadherin 1, cadherin 1, type 1, E-cadherin (epithelial)	ESTs, Moderately similar to CAD1_RAT Epithelial-cadherin precursor (E-cadherin) (Uvomorulin) (Cadherin-1) [R.norvegicus], cadherin 1, cadherin 1, type 1, E-cadherin (epithelial), cadherin 3, cadherin 3, type 1, P-cadherin (placental), desmoglein 3 (pemphigus vulgaris antigen)
2889	536	D25290	g	cadherin 6, cadherin 6, type 2, K-cadherin (fetal kidney)	ESTs, Weakly similar to CAD6 MOUSE CADHERIN-6 PRECURSOR [M.musculus], ESTs, Weakly similar to CAD8 MOUSE CADHERIN-8 PRECURSOR [M.musculus], ESTs, Weakly similar to CADB MOUSE CADHERIN-11 PRECURSOR [M.musculus], cadherin 10, cadherin 10, type 2 (T2-cadherin), cadherin 12, type 2 (N-cadherin 2), cadherin 6, cadherin 6, type 2, K-cadherin (fetal kidney), cadherin 7, cadherin 9
3924	18501	NM_031984	s, v, mm, xx	calbindin 1, (28kD), calbindin-28K	Mus musculus, Similar to secretagogen, clone MGC:27615 IMAGE:4504330, mRNA, complete cds, calbindin 1, (28kD), calbindin-28K
3060	24865	NM_012521	ss	calbindin 3, (vitamin D-dependent calcium binding protein), calbindin-D9K	calbindin 3, (vitamin D-dependent calcium binding protein), calbindin-D9K
3123	1632	NM_012717	d, y	calcitonin receptor-like	calcitonin receptor-like
3467	13450	NM_019255	k	calcium channel, voltage-dependent, gamma subunit 1	calcium channel, voltage-dependent, gamma subunit 1, calcium channel, voltage-dependent, gamma subunit 5, calcium channel, voltage-dependent, gamma subunit 6, voltage-dependent calcium channel gamma-6 subunit
3400	15819	NM_017298	u	calcium channel, voltage-dependent, L type, alpha 1D subunit	EST, Moderately similar to CCAD MOUSE VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [M.musculus], ESTs, Weakly similar to CCAD MOUSE VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [M.musculus], Mus musculus sperm ion channel mRNA, complete cds, RIKEN cDNA 8430418G19 gene, calcium channel, voltage-dependent, L type, alpha 1D subunit
3850	20467	NM_031662	r, ee	calcium/calmodulin-dependent protein kinase kinase 1, alpha	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3915	19190	NM_031969	s	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence AI327027, expressed sequence AL024000, troponin C, fast skeletal
3915	19193	NM_031969	l, dd	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence AI327027, expressed sequence AL024000, troponin C, fast skeletal
3915	19195	NM_031969	c	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence AI327027, expressed sequence AL024000, troponin C, fast skeletal
3915	19196	NM_031969	rr	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence AI327027, expressed sequence AL024000, troponin C, fast skeletal
3915	25802	NM_031969	c, x	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence AI327027, expressed sequence AL024000, troponin C, fast skeletal



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3058	20518	NM_012518	e, nn	calmodulin 3, calmodulin 3 (phosphorylase kinase, delta)	RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence AI327027, expressed sequence AL024000, troponin C, fast skeletal
2971	6963	L18889	ff	calnexin	
3435	20863	NM_019152	g	calpain 1, calpain 1, (mu/I) large subunit	ESTs, Weakly similar to CAN1_MOUSE CALPAIN 1, LARGE [CATALYTIC] SUBUNIT (CALCIUM-ACTIVATED NEUTRAL PROTEINASE) (CANP) (MU-TYPE) [M.musculus], calpain 1, calpain 11, small optic lobes homolog (Drosophila)
3852	23656	NM_031673	bb	calpain 10	
3325	21538	NM_017116	gg, hh	calpain 2, calpain 2, (m/II) large subunit	RIKEN cDNA 2600002E23 gene, calpain 12, calpain 2, calpain 2, (m/II) large subunit
4383	17078	U53859	k, jj	calpain, small subunit 1	EST, Moderately similar to CAN3_MOUSE CALPAIN P94, LARGE [M.musculus], ESTs, Weakly similar to A55143 calpain (EC 3.4.22.17) light chain - rat (fragment) [R.norvegicus], Mus musculus, Similar to grancalcin, EF-hand calcium binding protein, clone MGC:29240 IMAGE:5044040, mRNA, complete cds, RIKEN cDNA 2310005G05 gene, calpain 3, calpain, small subunit 1, expressed sequence AI323605, sorcin
4383	17079	U53859	jj	calpain, small subunit 1	EST, Moderately similar to CAN3_MOUSE CALPAIN P94, LARGE [M.musculus], ESTs, Weakly similar to A55143 calpain (EC 3.4.22.17) light chain - rat (fragment) [R.norvegicus], Mus musculus, Similar to grancalcin, EF-hand calcium binding protein, clone MGC:29240 IMAGE:5044040, mRNA, complete cds, RIKEN cDNA 2310005G05 gene, calpain 3, calpain, small subunit 1, expressed sequence AI323605, sorcin
484	1190	AA875089	ll	calpastatin	ESTs, Moderately similar to ICAL_HUMAN CALPAIN INHIBITOR [H.sapiens], calpastatin
3954	1187	NM_053295	t	calpastatin	ESTs, Moderately similar to ICAL_HUMAN CALPAIN INHIBITOR [H.sapiens], calpastatin

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3489	23491	NM_019359	k, v	calponin 3, acidic	ESTs, Moderately similar to CALPONIN H1, SMOOTH MUSCLE [M.musculus], calponin 1, calponin 2, calponin 3, acidic
3329	169	NM_017131	f	calsequestrin 2, calsequestrin 2 (cardiac muscle)	ESTs, Highly similar to CAQS MOUSE CALSEQUESTRIN, SKELETAL MUSCLE ISOFORM PRECURSOR [M.musculus], ESTs, Moderately similar to CAQC_RAT CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR [R.norvegicus], calsequestrin 1, calsequestrin 1 (fast-twitch, skeletal muscle), calsequestrin 2, calsequestrin 2 (cardiac muscle)
3310	20649	NM_017072	b, General, kk, vv	carbamoyl-phosphate synthetase 1, carbamoyl-phosphate synthetase 1, mitochondrial	DNA segment, Chr 1, University of California at Los Angeles 3, ESTs, Moderately similar to JQ1348 carbamoyl-phosphate synthase [H.sapiens], ESTs, Weakly similar to CPSM RAT CARBAMOYL-PHOSPHATE SYNTHASE [R.norvegicus], Mus musculus, Similar to Propionyl Coenzyme A carboxylase, alpha polypeptide, clone MGC:11973 IMAGE:3601148, mRNA, complete cds, carbamoyl-phosphate synthetase 1, mitochondrial, carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase, pyruvate decarboxylase
3310	20650	NM_017072	b, c, General, cc, kk, uu, vv	carbamoyl-phosphate synthetase 1, carbamoyl-phosphate synthetase 1, mitochondrial	DNA segment, Chr 1, University of California at Los Angeles 3, ESTs, Moderately similar to JQ1348 carbamoyl-phosphate synthase [H.sapiens], ESTs, Weakly similar to CPSM RAT CARBAMOYL-PHOSPHATE SYNTHASE [R.norvegicus], Mus musculus, Similar to Propionyl Coenzyme A carboxylase, alpha polypeptide, clone MGC:11973 IMAGE:3601148, mRNA, complete cds, carbamoyl-phosphate synthetase 1, mitochondrial, carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase, pyruvate decarboxylase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
236	6018	AA819140	x	carbonic anhydrase 3, carbonic anhydrase III, muscle specific	ESTs, Moderately similar to 1205233A anhydrase, carbonic [H.sapiens], Mus musculus adult male xiphoid cartilage cDNA, RIKEN full-length enriched library, clone:5230400J22:carbonic anhydrase 3, full insert sequence, carbonic anhydrase 1, carbonic anhydrase 3, carbonic anhydrase III, muscle specific
1465	17065	AI013531	qq	carbonyl reductase 1	ESTs, Weakly similar to S52349 carbonyl reductase (NADPH) (EC 1.1.1.184) - rat [R.norvegicus], RIKEN cDNA 1110001J05 gene, RIKEN cDNA A930033N07 gene, carbonyl reductase 1, carbonyl reductase 3
3441	17064	NM_019170	uu	carbonyl reductase 1	ESTs, Weakly similar to S52349 carbonyl reductase (NADPH) (EC 1.1.1.184) - rat [R.norvegicus], RIKEN cDNA 1110001J05 gene, RIKEN cDNA A930033N07 gene, carbonyl reductase 1, carbonyl reductase 3
74	1680	AA799792	gg, hh	carboxyl ester lipase, carboxyl ester lipase (bile salt-stimulated lipase)	ESTs, Weakly similar to BILE-SALT-ACTIVATED LIPASE PRECURSOR [M.musculus], ESTs, Weakly similar to S13586 triacylglycerol lipase [H.sapiens], KIAA0951 protein, carboxyl ester lipase, carboxyl ester lipase (bile salt-stimulated lipase), carboxyl ester lipase-like (bile salt-stimulated lipase-like)
4166	20879	NM_133295	j	carboxylesterase 3, carboxylesterase 3 (brain)	ESTs, Weakly similar to A41010 carboxylesterase [H.sapiens], Mus musculus, Similar to carboxylesterase 2 (intestine, liver), clone MGC:18908 IMAGE:4241028, mRNA, complete cds, Mus musculus, clone MGC:18894 IMAGE:4239756, mRNA, complete cds, RIKEN cDNA 2310039D24 gene, T-complex expressed gene 5, carboxylesterase 1, carboxylesterase 1 (monocyte/macrophage serine esterase 1), carboxylesterase 3, carboxylesterase 3 (brain), carboxylesterase related protein, esterase 22
4018	3062	NM_053617	a, cc	carboxypeptidase B2 (plasma), carboxypeptidase B2 (plasma, carboxypeptidase U)	carboxypeptidase B2 (plasma), carboxypeptidase B2 (plasma, carboxypeptidase U)
3152	15035	NM_012836	nn	carboxypeptidase D	carboxypeptidase D, carboxypeptidase M

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3927	20554	NM_031987	o	carnitine O-octanoyltransferase	carnitine O-octanoyltransferase
3927	20555	NM_031987	o	carnitine O-octanoyltransferase	carnitine O-octanoyltransferase
3813	15411	NM_031559	o, y, ff	carnitine palmitoyltransferase 1, liver, carnitine palmitoyltransferase I, liver	ESTs, Weakly similar to CPT1 MOUSE CARNITINE O-PALMITOYLTRANSFERASE I, MITOCHONDRIAL LIVER ISOFORM [M.musculus], carnitine palmitoyltransferase 1, liver, carnitine palmitoyltransferase I, liver
3273	20854	NM_013200	j, nn	carnitine palmitoyltransferase 1, muscle, carnitine palmitoyltransferase I, muscle	carnitine palmitoyltransferase 1, muscle, carnitine palmitoyltransferase I, muscle
3273	20856	NM_013200	o, jj	carnitine palmitoyltransferase 1, muscle, carnitine palmitoyltransferase I, muscle	carnitine palmitoyltransferase 1, muscle, carnitine palmitoyltransferase I, muscle
3182	1977	NM_012930	o, p, y, ff, xx	carnitine palmitoyltransferase 2, carnitine palmitoyltransferase II	carnitine palmitoyltransferase 2, carnitine palmitoyltransferase II
4017	20243	NM_053615	ff	casein kinase 1, alpha 1	ESTs, Weakly similar to casein kinase [M.musculus], RIKEN cDNA 2610208K14 gene, RIKEN cDNA 3300002K07 gene, casein kinase 1, alpha 1, casein kinase 1, delta
3179	776	NM_012922	u	caspase 3, apoptosis related cysteine protease, caspase 3, apoptosis-related cysteine protease	Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110059O17:caspase 3, apoptosis related cysteine protease, full insert sequence, caspase 3, apoptosis related cysteine protease, caspase 3, apoptosis-related cysteine protease, caspase 8
3179	777	NM_012922	z	caspase 3, apoptosis related cysteine protease, caspase 3, apoptosis-related cysteine protease	Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110059O17:caspase 3, apoptosis related cysteine protease, full insert sequence, caspase 3, apoptosis related cysteine protease, caspase 3, apoptosis-related cysteine protease, caspase 8
3887	16115	NM_031775	bb	caspase 6, caspase 6, apoptosis-related cysteine protease	caspase 6, caspase 6, apoptosis-related cysteine protease
3059	15740	NM_012520	p	catalase, catalase 1	catalase, catalase 1
3059	15741	NM_012520	o, General, bb	catalase, catalase 1	catalase, catalase 1
3061	11115	NM_012531	l, nn	catechol-O-methyltransferase	RIKEN cDNA 6330414C15 gene, catechol-O-methyltransferase
3061	11116	NM_012531	nn	catechol-O-methyltransferase	RIKEN cDNA 6330414C15 gene, catechol-O-methyltransferase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3185	9109	NM_012939	I, General	cathepsin H	ESTs, Weakly similar to CATH_RAT CATHEPSIN H PRECURSOR (CATHEPSIN B3) (CATHEPSIN BA) [R.norvegicus], cathepsin H, cathepsin W, cathepsin W (lymphopain), expressed sequence AI118514
3256	3430	NM_013156	g, General, oo, pp, uu	cathepsin L	ESTs, Weakly similar to CATL MOUSE CATHEPSIN L PRECURSOR [M.musculus], RIKEN cDNA 4930486L24 gene, cathepsin L, expressed sequence AA408230
3256	3431	NM_013156	z, cc	cathepsin L	ESTs, Weakly similar to CATL MOUSE CATHEPSIN L PRECURSOR [M.musculus], RIKEN cDNA 4930486L24 gene, cathepsin L, expressed sequence AA408230
3649	21238	NM_024125	t, ff	CCAAT/enhancer binding protein (C/EBP), beta	CCAAT/enhancer binding protein (C/EBP), beta
3649	21239	NM_024125	d, l, z	CCAAT/enhancer binding protein (C/EBP), beta	CCAAT/enhancer binding protein (C/EBP), beta
3254	21683	NM_013154	d, g	CCAAT/enhancer binding protein (C/EBP), delta	CCAAT/enhancer binding protein (C/EBP), delta
3806	16047	NM_031541	j, General, II	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1, scavenger receptor class B1	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1, scavenger receptor class B1
3814	18315	NM_031561	o	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18316	NM_031561	o	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18317	NM_031561	o	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18318	NM_031561	j	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	18319	NM_031561	o	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
3814	25139	NM_031561	o	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)	CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
3447	22065	NM_019195	bb, nn	CD47 antigen (Rh-related antigen, integrin-associated signal transducer), integrin-associated protein	CD47 antigen (Rh-related antigen, integrin-associated signal transducer), RIKEN cDNA 1700026J12 gene, integrin-associated protein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3181	2830	NM_012925	l, p, nn	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a antigen	
3326	1435	NM_017125	l, cc, rr	CD63 antigen (melanoma 1 antigen), Cd63 antigen	CD63 antigen (melanoma 1 antigen), Cd63 antigen, EST, Weakly similar to CD63 MOUSE CD63 ANTIGEN [M.musculus], ESTs, Weakly similar to CD63_RAT CD63 antigen (AD1 antigen) [R.norvegicus], Mus musculus, clone MGC:36554 IMAGE:4954874, mRNA, complete cds, RIKEN cDNA 1300010A20 gene, expressed sequence C75951, expressed sequence C80071, transmembrane 4 superfamily member 2
4039	10512	NM_053743	k, mm	CDC37 cell division cycle 37 homolog (S. cerevisiae), cell division cycle 37 homolog (S. cerevisiae)	CDC37 cell division cycle 37 homolog (S. cerevisiae), cell division cycle 37 homolog (S. cerevisiae), cell division cycle 37 homolog (S. cerevisiae)-like
4020	1178	NM_053620	ll	CDC42 binding protein kinase beta (DMPK-like), Cdc42 binding protein kinase beta	CDC42 binding protein kinase beta (DMPK-like), DNA segment, Chr X, Immunex 40, expressed, ESTs, Highly similar to Cdc42-binding protein kinase beta [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to Cdc42-binding protein kinase beta [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 1190006F07 gene, dystrophia myotonica kinase, B15
3990	2016	NM_053527	d	CDC5 cell division cycle 5-like (S. pombe), cell division cycle 5-like (S. pombe)	cell division cycle 5-like (S. pombe), myeloblastosis oncogene-like 1, myeloblastosis oncogene-like 2, v-myb myeloblastosis viral oncogene homolog (avian), v-myb myeloblastosis viral oncogene homolog (avian)-like 2
3880	13186	NM_031755	n	CEA-related cell adhesion molecule 1, carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein), carcinoembryonic antigen-related cell adhesion molecule 5, carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen), carcinoembryonic antigen-related cell adhesion molecule 8, pregnancy specific beta-1-glycoprotein 2, pregnancy specific beta-1-glycoprotein 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
73	13683	AA799788	s	cell division cycle 34	ESTs, Highly similar to A41222 ubiquitin-protein ligase [H.sapiens], ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus], RIKEN cDNA 2610301N02 gene, cell division cycle 34, expressed sequence A1327276, ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae), ubiquitin-conjugating enzyme E2C
2979	13682	L38482	p	cell division cycle 34	ESTs, Highly similar to A41222 ubiquitin-protein ligase [H.sapiens], ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus], RIKEN cDNA 2610301N02 gene, cell division cycle 34, expressed sequence A1327276, ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae), ubiquitin-conjugating enzyme E2C
2465	22845	A1227887	t	cell division cycle 42 (GTP binding protein, 25kD), cell division cycle 42 homolog (S. cerevisiae)	RIKEN cDNA 4930544G11 gene, RIKEN cDNA 5830400A04 gene, cell division cycle 42 (GTP binding protein, 25kD), p135 ras-related homolog A2, ras homolog 9 (RhoC), ras homolog A2, ras homolog gene family, member C
3062	16520	NM_012532	b, u	ceruloplasmin, ceruloplasmin (ferroxidase)	DNA segment, Chr 3, ERATO Doi 555, expressed, EST, Highly similar to FA8_HUMAN COAGULATION FACTOR VIII PRECURSOR [H.sapiens], ESTs, Weakly similar to CERU MOUSE CERULOPLASMIN PRECURSOR [M.musculus], ESTs, Weakly similar to CERU_RAT CERULOPLASMIN PRECURSOR (FERROXIDASE) [R.norvegicus], ESTs, Weakly similar to KUHU ferroxidase [H.sapiens], ceruloplasmin, ceruloplasmin (ferroxidase), coagulation factor VIII, procoagulant component (hemophilia A)
3362	5005	NM_017209	n	CGI-63 protein, nuclear receptor binding factor 1	Mus musculus, Similar to vesicle amine transport protein 1, clone MGC:38107 IMAGE:5320239, mRNA, complete cds, dithiolethione-inducible gene-1, nuclear receptor binding factor 1, vesicle amine transport protein 1
3871	19049	NM_031719	e	chloride channel, nucleotide-sensitive, 1A	chloride channel, nucleotide-sensitive, 1A

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3871	19050	NM_031719	e, p	chloride channel, nucleotide-sensitive, 1A	chloride channel, nucleotide-sensitive, 1A
3901	10676	NM_031818	t	chloride intracellular channel 4, chloride intracellular channel 4 (mitochondrial)	EST X83352, ESTs, Weakly similar to intracellular chloride ion channel protein p64H1 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 5730531E12 gene, chloride intracellular channel 1, chloride intracellular channel 4 (mitochondrial)
3260	447	NM_013165	tt	cholecystokinin B receptor	cholecystokinin B receptor
3328	1305	NM_017127	oo	choline kinase	Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110043M12:choline kinase, full insert sequence, choline kinase, hypothetical protein FLJ10761
3328	1306	NM_017127	f, l, General, kk, qq, vv	choline kinase	Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110043M12:choline kinase, full insert sequence, choline kinase, hypothetical protein FLJ10761
3352	3512	NM_017177	d, o, q, v, dd	choline kinase-like	EST, Weakly similar to KICE MOUSE CHOLINE/ETHANOLAMINE KINASE [M.musculus], ESTs, Weakly similar to KICE_RAT Choline/ethanolamine kinase [Includes: Choline kinase (CK); Ethanolamine kinase (EK)] [R.norvegicus], Homo sapiens, Similar to hypothetical protein FLJ10761, clone MGC:19512 IMAGE:4329734, mRNA, complete cds, RIKEN cDNA 4930555L11 gene, choline kinase-like, ethanolamine kinase, expressed sequence A1197444
3352	3513	NM_017177	d, n, dd	choline kinase-like	EST, Weakly similar to KICE MOUSE CHOLINE/ETHANOLAMINE KINASE [M.musculus], ESTs, Weakly similar to KICE_RAT Choline/ethanolamine kinase [Includes: Choline kinase (CK); Ethanolamine kinase (EK)] [R.norvegicus], Homo sapiens, Similar to hypothetical protein FLJ10761, clone MGC:19512 IMAGE:4329734, mRNA, complete cds, RIKEN cDNA 4930555L11 gene, choline kinase-like, ethanolamine kinase, expressed sequence A1197444
3821	1444	NM_031583	ww	chondroitin sulfate proteoglycan 6, chondroitin sulfate proteoglycan 6 (bamacan)	SMC2 structural maintenance of chromosomes 2-like 1 (yeast), chondroitin sulfate proteoglycan 6, chondroitin sulfate proteoglycan 6 (bamacan), fibroblast growth factor inducible 16



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3918	17075	NM_031974	I, General, kk, ll, ss	clathrin, light polypeptide (Lca)	H.sapiens clathrin light chain a gene, clathrin, light polypeptide (Lca), clathrin, light polypeptide (Lcb), expressed sequence AV026556
3862	13706	NM_031699	ss	claudin 1	ESTs, Weakly similar to claudin 1 [Rattus norvegicus] [R.norvegicus], Homo sapiens, clone MGC:23949 IMAGE:4243903, mRNA, complete cds, Mus musculus claudin 19 mRNA, complete cds, claudin 1, claudin 18
3863	20404	NM_031700	General	claudin 3	claudin 3
3863	20405	NM_031700	a, I, General, cc, ss	claudin 3	claudin 3
3630	24838	NM_022924	tt	coagulation factor II, coagulation factor II (thrombin)	coagulation factor II, coagulation factor II (thrombin)
3006	25430	M26247	p	coagulation factor IX, coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B)	
3335	10503	NM_017143	a, x, dd	coagulation factor X	ESTs, Weakly similar to 2209311A coagulation factor X [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to FA7 MOUSE COAGULATION FACTOR VII PRECURSOR [M.musculus], coagulation factor X, proline-rich Gla (G-carboxyglutamic acid) polypeptide 1, proline-rich Gla (G-carboxyglutamic acid) polypeptide 2
3335	10504	NM_017143	d, dd	coagulation factor X	ESTs, Weakly similar to 2209311A coagulation factor X [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to FA7 MOUSE COAGULATION FACTOR VII PRECURSOR [M.musculus], coagulation factor X, proline-rich Gla (G-carboxyglutamic acid) polypeptide 1, proline-rich Gla (G-carboxyglutamic acid) polypeptide 2
4136	19831	NM_080781	b, q, x, dd	coatamer protein complex, subunit beta, coatamer protein complex, subunit beta 1	coatamer protein complex, subunit beta, coatamer protein complex, subunit beta 1
2712	2241	A1235500	ss	cofilin 1 (non-muscle), cofilin 1, non-muscle	cofilin 1 (non-muscle), cofilin 1, non-muscle, cofilin 2 (muscle), cofilin 2, muscle, expressed sequence AW987265

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3337	15364	NM_017147	j	cofilin 1 (non-muscle), cofilin 1, non-muscle	cofilin 1 (non-muscle), cofilin 1, non-muscle, cofilin 2 (muscle), cofilin 2, muscle, expressed sequence AW987265
2890	16610	D28557	n, General, oo, rr	cold shock domain protein A	Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2610205119:Y box protein 1, full insert sequence, Mus musculus Y-box binding protein (oxyR) mRNA, partial cds, cold shock domain protein A
4484	15569	Z78279	bb	collagen, type I, alpha 1, procollagen, type I, alpha 1	EST, Weakly similar to CA11_HUMAN COLLAGEN ALPHA 1(I) CHAIN PRECURSOR [H.sapiens], EST, Weakly similar to PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to CA11_HUMAN COLLAGEN ALPHA 1(I) CHAIN PRECURSOR [H.sapiens], ESTs, Weakly similar to PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR [M.musculus], F-box only protein 29, Mus musculus, Similar to RIKEN cDNA 1700051112 gene, clone MGC:28741 IMAGE:4481590, mRNA, complete cds, collagen, type IV, alpha 3 (Goodpasture antigen), expressed sequence AW742721, procollagen, type I, alpha 1, procollagen, type IV, alpha 1, procollagen, type IV, alpha 4, procollagen, type IV, alpha 5, procollagen, type VI, alpha 1, putative amu1
572	21674	AA891828	jj	collagen, type I, alpha 2, procollagen, type I, alpha 2	F-box only protein 29, Mus musculus, clone IMAGE:5323568, mRNA, partial cds, collagen, type VI, alpha 3, procollagen, type I, alpha 2, prostate tumor over expressed gene 1, retinoblastoma binding protein 1
420	2263	AA859757	e	collagen, type V, alpha 1, procollagen, type V, alpha 1	EST, Weakly similar to CGHU1V collagen alpha 1(V) chain precursor [H.sapiens], Homo sapiens cDNA FLJ30442 fis, clone BRACE2009212, Homo sapiens proline-rich acidic protein mRNA, complete cds, Mus musculus, clone IMAGE:3490511, mRNA, partial cds, collagen, type V, alpha 1, collagen, type XI, alpha 1, endoplasmic reticulum chaperone SIL1, homolog of yeast, hypothetical protein MGC2705, procollagen, type V, alpha 1, procollagen, type V, alpha 3, procollagen, type XI, alpha 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3474	1129	NM_019274	nn	collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase	CSR1 protein, EST, Weakly similar to CA1B MOUSE COLLAGEN ALPHA 1(XI) CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to CA17_HUMAN COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR [H.sapiens], collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase
3469	15259	NM_019259	rr	complement component 1, q subcomponent binding protein	complement component 1, q subcomponent binding protein
3470	21443	NM_019262	nn	complement component 1, q subcomponent, beta polypeptide	
3287	1958	NM_016994	b, General, uu, vv	complement component 3	EST, Weakly similar to CO3_RAT COMPLEMENT C3 PRECURSOR [CONTAINS: C3A ANAPHYLATOXIN] [R.norvegicus], complement component 3, complement component 4 (within H-2S), complement component 4A, complement component 4B, expressed sequence AI663842. hemolytic complement
3287	1959	NM_016994	f, u, uu	complement component 3	EST, Weakly similar to CO3_RAT COMPLEMENT C3 PRECURSOR [CONTAINS: C3A ANAPHYLATOXIN] [R.norvegicus], complement component 3, complement component 4 (within H-2S), complement component 4A, complement component 4B, expressed sequence AI663842. hemolytic complement
163	15852	AA800942	gg, hh	complement component 4 (within H-2S), complement component 4B	complement component 4 (within H-2S), complement component 4A
4377	15851	U42719	vv	complement component 4 (within H-2S), complement component 4B	complement component 4 (within H-2S), complement component 4A
3288	1561	NM_016995	d, v, uu	complement component 4 binding protein, beta, complement component 4 binding protein, pseudogene 1	complement component 4 binding protein, beta

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3057	563	NM_012516	l, vv	complement component 4 binding protein, complement component 4 binding protein, alpha	ESTs, Moderately similar to NBHUC4 C4b-binding protein alpha chain precursor [H.sapiens], complement component (3d/Epstein Barr virus) receptor 2, complement component 4 binding protein, complement component 4 binding protein, alpha, complement receptor 2, decay-accelerating factor, expressed sequence A1195242 zona nellucida 3 receptor
4019	926	NM_053619	g	complement component 5 receptor 1 (C5a ligand), complement component 5, receptor 1	ESTs, Weakly similar to GPRY_MOUSE PROBABLE G PROTEIN-COUPLED RECEPTOR GPR34 [M.musculus], complement component 5 receptor 1 (C5a ligand), complement component 5, receptor 1
3845	1727	NM_031642	r, tt	core promoter element binding protein	DNA segment, Chr 12, ERATO Doi 427, expressed, EST, Moderately similar to core promoter element binding protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to core promoter element binding protein [Rattus norvegicus] [R.norvegicus], Kruppel-like factor 7 (ubiquitous), core promoter element binding protein
3453	15348	NM_019222	k, m	coronin, actin binding protein 1B, coronin, actin-binding protein, 1B	ESTs, Moderately similar to CO1B_RAT Coronin 1B (Coronin 2) [R.norvegicus], coronin 6, coronin, actin binding protein 1B, coronin, actin binding protein 1C, coronin, actin binding protein, 1C, hypothetical protein DKFZp7621166
3320	6013	NM_017096	e, w, rr, vv	C-reactive protein, pentraxin-related, C-reactive protein, petaxin related	C-reactive protein, petaxin related, Homo sapiens, Similar to C-reactive protein, pentraxin-related, clone MGC:22631 IMAGE:4766715, mRNA, complete cds
3063	20357	NM_012534	p, bb	crystallin, alpha A	crystallin, alpha A, expressed sequence A1323437

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3184	13723	NM_012935	u	crystallin, alpha B	ESTs, Moderately similar to T46637 transcription factor 1, neural - rat [R.norvegicus], ESTs, Weakly similar to A35804 nucleolin [H.sapiens], ESTs, Weakly similar to alpha-crystallin chain B [M.musculus], Homo sapiens mRNA; cDNA DKFZp434E0922 (from clone DKFZp434E0922), Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810003118:myelin transcription factor 1-like, full insert sequence, crystallin, alpha B, myelin transcription factor 1-like, nucleolin
3448	18572	NM_019201	pp, tt	C-terminal binding protein 1	C-terminal binding protein 1, Homo sapiens mRNA; cDNA DKFZp434B0914 (from clone DKFZp434B0914); partial cds
1094	24230	AA957218	ii	cyclin D1, cyclin D1 (PRAD1: parathyroid adenomatosis 1)	EST, Moderately similar to JC2342 cyclin D1 - rat [R.norvegicus], cyclin D1, cyclin D1 (PRAD1: parathyroid adenomatosis 1)
3180	20755	NM_012923	m, u	cyclin G, cyclin G1	ESTs, Weakly similar to CCG1_RAT Cyclin G1 (Cyclin G) [R.norvegicus], cyclin G, cyclin G2, cyclin I
4137	132	NM_080782	ll, tt	cyclin-dependent kinase inhibitor 1A (P21), cyclin-dependent kinase inhibitor 1A (p21, Cip1)	
4137	133	NM_080782	p, ll, ss	cyclin-dependent kinase inhibitor 1A (P21), cyclin-dependent kinase inhibitor 1A (p21, Cip1)	
3468	7693	NM_019258	g	cystatin 8 (cystatin-related epididymal specific), cystatin 8 (cystatin-related epididymal spermatogenic)	RIKEN cDNA 1700006C19 gene, cystatin 8 (cystatin-related epididymal specific), cystatin 8 (cystatin-related epididymal spermatogenic)
3153	2853	NM_012838	j, l, qq	cystatin B, cystatin B (stefin B)	cystatin B, cystatin B (stefin B)
3153	2854	NM_012838	j, l, General, cc, rr	cystatin B, cystatin B (stefin B)	cystatin B, cystatin B (stefin B)
3153	2855	NM_012838	l, cc	cystatin B, cystatin B (stefin B)	cystatin B, cystatin B (stefin B)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2570	24326	AI231292	a, l, General, cc, qq	cystatin C, cystatin C (amyloid angiopathy and cerebral hemorrhage)	ESTs, Moderately similar to CYTC MOUSE CYSTATIN C PRECURSOR [M.musculus], ESTs, Weakly similar to CYTC MOUSE CYSTATIN C PRECURSOR [M.musculus], RIKEN cDNA 1110017E11 gene, RIKEN cDNA 9230101F08 gene, cystatin C, cystatin C (amyloid angiopathy and cerebral hemorrhage), cystatin D, cystatin S, cystatin SA, cystatin SN
2570	24327	AI231292	h, l, rr	cystatin C, cystatin C (amyloid angiopathy and cerebral hemorrhage)	ESTs, Moderately similar to CYTC MOUSE CYSTATIN C PRECURSOR [M.musculus], ESTs, Weakly similar to CYTC MOUSE CYSTATIN C PRECURSOR [M.musculus], RIKEN cDNA 1110017E11 gene, RIKEN cDNA 9230101F08 gene, cystatin C, cystatin C (amyloid angiopathy and cerebral hemorrhage), cystatin D, cystatin S, cystatin SA, cystatin SN
3574	2515	NM_022501	ww	cysteine and glycine-rich protein 2, cysteine-rich protein 2	RIKEN cDNA 0610010I23 gene, cysteine-rich protein 2, thymus LIM protein
4378	19543	U44948	ww	cysteine and glycine-rich protein 2, cysteine-rich protein 2	RIKEN cDNA 0610010I23 gene, cysteine-rich protein 2, thymus LIM protein
3950	25024	NM_052809	b, o, vv	cysteine dioxygenase 1, cytosolic, cysteine dioxygenase, type I	cysteine dioxygenase 1, cytosolic, cysteine dioxygenase, type I
3950	15028	NM_052809	b, qq, vv	cysteine dioxygenase 1, cytosolic, cysteine dioxygenase, type I	cysteine dioxygenase 1, cytosolic, cysteine dioxygenase, type I
3360	14694	NM_017202	ff	cytochrome c oxidase subunit IV isoform 1, cytochrome c oxidase, subunit IVa	EST, Weakly similar to COX4_HUMAN CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSO [H.sapiens], ESTs, Moderately similar to COX4_HUMAN CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSO [H.sapiens], cytochrome c oxidase subunit IV isoform 1, cytochrome c oxidase, subunit IVa
3983	21866	NM_053472	s	cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase, subunit IVb	cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase, subunit IVb
1940	23574	AI104520	ll	cytochrome c oxidase subunit VIa polypeptide 1, cytochrome c oxidase, subunit VI a, polypeptide 1	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3154	11138	NM_012839	jj	cytochrome c, cytochrome c, somatic	
3064	488	NM_012540	j, w	cytochrome P450, 1a1, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1	cytochrome P450, 1a1, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1
3064	489	NM_012540	e, tt	cytochrome P450, 1a1, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1	cytochrome P450, 1a1, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1
3064	20705	NM_012540	j	cytochrome P450, 1a2, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2	cytochrome P450, 1a2, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2
3065	20703	NM_012541	xx	cytochrome P450, 1a2, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2	cytochrome P450, 1a2, aromatic compound inducible, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2
3186	190	NM_012940	e	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
3186	191	NM_012940	e	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
3186	192	NM_012940	e	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
3186	193	NM_012940	e, v	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3807	4010	NM_031543	e, r	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)	
3807	4011	NM_031543	j, w	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)	
3807	4012	NM_031543	e, rr	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)	
3187	20928	NM_012941	ee	cytochrome P450, 51, cytochrome P450, 51 (lanosterol 14-alpha-demethylase)	cytochrome P450, 51, cytochrome P450, 51 (lanosterol 14-alpha-demethylase)
3187	20929	NM_012941	jj	cytochrome P450, 51, cytochrome P450, 51 (lanosterol 14-alpha-demethylase)	cytochrome P450, 51, cytochrome P450, 51 (lanosterol 14-alpha-demethylase)
3187	20931	NM_012941	uu	cytochrome P450, 51, cytochrome P450, 51 (lanosterol 14-alpha-demethylase)	cytochrome P450, 51, cytochrome P450, 51 (lanosterol 14-alpha-demethylase)
835	20711	AA924267	o	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide 1	EST, Moderately similar to I65981 fatty acid omega-hydroxylase [H.sapiens], Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, subfamily IVA, polypeptide 11, expressed sequence AI314743
1194	20712	AA997806	b, uu	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide 1	EST, Moderately similar to I65981 fatty acid omega-hydroxylase [H.sapiens], Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, subfamily IVA, polypeptide 11, expressed sequence AI314743



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2991	20714	M14972	o, r	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide 1	EST, Moderately similar to I65981 fatty acid omega-hydroxylase [H.sapiens], Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, subfamily IVA, polypeptide 11, expressed sequence AI314743
3019	20713	M57718	o, r, xx	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide 1	EST, Moderately similar to I65981 fatty acid omega-hydroxylase [H.sapiens], Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, subfamily IVA, polypeptide 11, expressed sequence AI314743
4408	20715	X07259	o, xx	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide 1	EST, Moderately similar to I65981 fatty acid omega-hydroxylase [H.sapiens], Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, subfamily IVA, polypeptide 11, expressed sequence AI314743

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4260	1858	NM_138907	o, q, jj, xx	cytosolic acyl-CoA thioesterase 1, mitochondrial acyl-CoA thioesterase 1, peroxisomal long-chain acyl- CoA thioesterase	EST, Moderately similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], ESTs, Weakly similar to MTE1_RAT Acyl coenzyme A thioester hydrolase, mitochondrial precursor (Very-long-chain acyl-CoA thioesterase) (MTE-I) [R.norvegicus], ESTs, Weakly similar to PTE2_HUMAN PEROXISOMAL ACYL- COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL- COA THIOESTERASE 2) (ZAP128) [H.sapiens], Homo sapiens cDNA FLJ31235 fis, clone KIDNE2004681, moderately similar to Mus musculus peroxisomal long chain acyl-CoA thioesterase 1b (Pte1b) gene, Mus musculus, Similar to bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase), clone MGC:19156 IMAGE:4220620, mRNA, complete cds, cytosolic acyl-CoA thioesterase 1, mitochondrial acyl-CoA thioesterase 1, peroxisomal long-chain acyl- CoA thioesterase
3779	1857	NM_031315	o, xx	cytosolic acyl-CoA thioesterase 1, peroxisomal long-chain acyl-CoA thioesterase	EST, Moderately similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], ESTs, Weakly similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], Homo sapiens cDNA FLJ31235 fis, clone KIDNE2004681, moderately similar to Mus musculus peroxisomal long chain acyl-CoA thioesterase 1b (Pte1b) gene, cytosolic acyl- CoA thioesterase 1, peroxisomal long-chain acyl-CoA thioesterase
3652	17226	NM_024131	b, ff, vv	D-dopachrome tautomerase	D-dopachrome tautomerase, EST, Moderately similar to DOPD_HUMAN D- DOPACHROME TAUTOMERASE [H.sapiens]

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3652	17227	NM_024131	b, f, ff, vv	D-dopachrome tautomerase	D-dopachrome tautomerase, EST; Moderately similar to DOPD_HUMAN D-DOPACHROME TAUTOMERASE [H.sapiens]
3363	1703	NM_017210	mm	deiodinase, iodothyronine type III, deiodinase, iodothyronine, type III	deiodinase, iodothyronine, type I, deiodinase, iodothyronine, type III
3363	1704	NM_017210	mm, xx	deiodinase, iodothyronine type III, deiodinase, iodothyronine, type III	deiodinase, iodothyronine, type I, deiodinase, iodothyronine, type III
3522	19679	NM_021653	a, d, ii	deiodinase, iodothyronine, type I	ESTs, Moderately similar to IOD1_RAT TYPE I IODOTHYRONINE DEIODINASE (TYPE-I 5'DEIODINASE) (DIOI) (TYPE 1 DI) (5DI) [R.norvegicus], deiodinase, iodothyronine, type I
3930	860	NM_032063	mm	delta-like 1 (Drosophila)	EST, Highly similar to delta (Drosophila)-like 1 [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to DLL1_HUMAN DELTA-LIKE PROTEIN 1 PRECURSOR [H.sapiens], delta-like 1 (Drosophila), delta-like 4 (Drosophila), hypothetical protein MGC2487
3912	16535	NM_031853	bb	diazepam binding inhibitor, diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)	
4466	25746	X80778	t	dihydroorotate dehydrogenase	
3865	811	NM_031705	c, s, General, II	dihydropyrimidinase	ESTs, Weakly similar to DPY1 MOUSE DIHYDROPYRIMIDINASE RELATED PROTEIN-1 [M.musculus], dihydropyrimidinase
3865	812	NM_031705	s, oo	dihydropyrimidinase	ESTs, Weakly similar to DPY1 MOUSE DIHYDROPYRIMIDINASE RELATED PROTEIN-1 [M.musculus], dihydropyrimidinase
756	6377	AA894273	t, qq	dimethylarginine dimethylaminohydrolase 1	ESTs, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
989	19421	AA945152	n, ee	dimethylarginine dimethylaminohydrolase 1	ESTs, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2
2424	19427	AI179510	pp	dimethylarginine dimethylaminohydrolase 1	ESTs, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2
3556	19422	NM_022297	j, z	dimethylarginine dimethylaminohydrolase 1	ESTs, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2
3556	19423	NM_022297	l	dimethylarginine dimethylaminohydrolase 1	ESTs, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4325	19429	R47028	n	dimethylarginine dimethylaminohydrolase 1	ESTs, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2
4452	6376	X62951	xx	dimethylarginine dimethylaminohydrolase 1	ESTs, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2
3917	16865	NM_031973	a, cc, uu	dipeptidyl peptidase 7, dipeptidylpeptidase 7	RIKEN cDNA 2510048K03 gene, dipeptidyl peptidase 7, dipeptidylpeptidase 7, prolylcarboxypeptidase (angiotensinase C), protease, serine, 16 (thymus)
1314	7785	A1008758	vv	dipeptidylpeptidase 4, dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2)	ESTs, Weakly similar to DPP4_MOUSE DIPEPTIDYL PEPTIDASE IV [M.musculus], ESTs, Weakly similar to DPP4_RAT Dipeptidyl peptidase IV (DPP IV) (GP110 glycoprotein) (Bile canaliculus domain-specific membrane glycoprotein) [R.norvegicus], dipeptidylpeptidase 4, dipeptidylpeptidase 8, fibroblast activation protein, fibroblast activation protein, alpha
3140	7783	NM_012789	qq	dipeptidylpeptidase 4, dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2)	ESTs, Weakly similar to DPP4_MOUSE DIPEPTIDYL PEPTIDASE IV [M.musculus], ESTs, Weakly similar to DPP4_RAT Dipeptidyl peptidase IV (DPP IV) (GP110 glycoprotein) (Bile canaliculus domain-specific membrane glycoprotein) [R.norvegicus], dipeptidylpeptidase 4, dipeptidylpeptidase 8, fibroblast activation protein, fibroblast activation protein, alpha

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3140	7784	NM_012789	General, kk	dipeptidylpeptidase 4, dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2)	ESTs, Weakly similar to DPP4 MOUSE DIPEPTIDYL PEPTIDASE IV [M.musculus], ESTs, Weakly similar to DPP4_RAT Dipeptidyl peptidase IV (DPP IV) (GP110 glycoprotein) (Bile canaliculus domain-specific membrane glycoprotein) [R.norvegicus], dipeptidylpeptidase 4, dipeptidylpeptidase 8, fibroblast activation protein, fibroblast activation protein, alpha
216	6054	AA818658	ww	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor), heparin binding epidermal growth factor-like growth factor	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor), heparin binding epidermal growth factor-like growth factor
3188	1720	NM_012943	cc	distal-less homeo box 5, distal-less homeobox 5	
3334	24105	NM_017141	a	DNA polymerase beta, polymerase (DNA directed), beta	Mus musculus, Similar to DNA polymerase beta, clone MGC:6386 IMAGE:3581916, mRNA, complete cds, polymerase (DNA directed), beta
3334	24107	NM_017141	d, g	DNA polymerase beta, polymerase (DNA directed), beta	Mus musculus, Similar to DNA polymerase beta, clone MGC:6386 IMAGE:3581916, mRNA, complete cds, polymerase (DNA directed), beta
13	1599	AA686470	General	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3, ESTs, Highly similar to GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD153 [M.musculus], ESTs, Weakly similar to 1916411A TLS-CHOP protein [H.sapiens]
13	1600	AA686470	pp	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3, ESTs, Highly similar to GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD153 [M.musculus], ESTs, Weakly similar to 1916411A TLS-CHOP protein [H.sapiens]
3654	1598	NM_024134	f, l, o, p, q, General, cc, dd, kk, ll, qq	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3, ESTs, Highly similar to GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD153 [M.musculus], ESTs, Weakly similar to 1916411A TLS-CHOP protein [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3931	18494	NM_032079	n, ff, pp	DnaJ (Hsp40) homolog, subfamily A, member 2	DnaJ (Hsp40) homolog, subfamily A, member 2, DnaJ (Hsp40) homolog, subfamily B, member 11, DnaJ (Hsp40) homolog, subfamily B, member 1, ESTs, Weakly similar to DnaJ (Hsp40) homolog, subfamily A, member 2 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 2810451A06 gene, RIKEN cDNA 5730496F10 gene, expressed sequence AI506245
2880	18686	D00729	o, ff, jj	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
3403	18685	NM_017306	o	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
3403	18687	NM_017306	o, ff, rr	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
3466	10340	NM_019252	d, j, tt	dolichol-phosphate (beta-D) mannosyltransferase 2, dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory subunit	dolichol-phosphate (beta-D) mannosyltransferase 2, dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory subunit
3333	492	NM_017140	I	dopamine receptor 3, dopamine receptor D3	dopamine receptor 3, dopamine receptor D3
4046	15995	NM_053769	r, ff	dual specificity phosphatase 1, protein tyrosine phosphatase, non-receptor type 16	Mus musculus, clone MGC:11703 IMAGE:3964527, mRNA, complete cds, RIKEN cDNA 2310076D10 gene, RIKEN cDNA 4930527G07 gene, dual specificity phosphatase 1, expressed sequence BB104621, protein tyrosine phosphatase, non-receptor type 16

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4046	15996	NM_053769	n, ff, kk	dual specificity phosphatase 1, protein tyrosine phosphatase, non-receptor type 16	Mus musculus, clone MGC:11703 IMAGE:3964527, mRNA, complete cds, RIKEN cDNA 2310076D10 gene, RIKEN cDNA 4930527G07 gene, dual specificity phosphatase 1, expressed sequence BB104621, protein tyrosine phosphatase, non-receptor type 16
4046	15997	NM_053769	d, n, r, w, y	dual specificity phosphatase 1, protein tyrosine phosphatase, non-receptor type 16	Mus musculus, clone MGC:11703 IMAGE:3964527, mRNA, complete cds, RIKEN cDNA 2310076D10 gene, RIKEN cDNA 4930527G07 gene, dual specificity phosphatase 1, expressed sequence BB104621, protein tyrosine phosphatase, non-receptor type 16
4073	19781	NM_053883	q, tt	dual specificity phosphatase 6	ESTs, Moderately similar to 2208380A protein Tyr phosphatase MKP-3 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to 2208380A protein Tyr phosphatase MKP-3 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 1110028K04 gene, RIKEN cDNA 2310076D10 gene, dual specificity phosphatase 6, dual specificity phosphatase 9
3141	24113	NM_012791	r	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	ESTs, Moderately similar to DYRA_RAT Dual-specificity tyrosine-phosphorylation regulated kinase 1A (Protein kinase minibrain homolog) (MNBH) (RP86) (Dual specificity YAK1-related kinase) [R.norvegicus], ESTs, Weakly similar to DYRK MOUSE DUAL-SPECIFICITY TYROSINE-(Y)-PHOSPHORYLATION REGULATED KINASE [M.musculus], Mus musculus, clone MGC:6699 IMAGE:3584001, mRNA, complete cds, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine (Y)-phosphorylation regulated kinase 1a
3651	1785	NM_024130	x, oo	dynactin 1, dynactin 1 (p150, glued homolog, Drosophila)	ESTs, Weakly similar to dynactin 1 [Rattus norvegicus] [R.norvegicus], Mus musculus, similar to supported by EST AA121608 (NID:g1679223) and Genscan, clone IMAGE:5361390, mRNA, partial cds, RIKEN cDNA 2410007D12 gene, RIKEN cDNA 4933405K21 gene, dynactin 1, dynactin 1 (p150, glued homolog, Drosophila)



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4029	1120	NM_053655	g, n	dynamin 1-like	ESTs, Moderately similar to dynamin 2 [Mus musculus] [M.musculus], Mus musculus, Similar to KIAA0820 protein, clone MGC:37713 IMAGE:5066120, mRNA, complete cds, Mus musculus, Similar to dynamin 1-like, clone MGC:41233 IMAGE:1395338, mRNA, complete cds, dynamin 1-like, dynamin 2
3272	1693	NM_013199	e	dynamin 2	ESTs, Highly similar to A53165 dynamin II isoform aa - rat [R.norvegicus], ESTs, Moderately similar to dynamin 2 [Mus musculus] [M.musculus], Mus musculus, Similar to KIAA0820 protein, clone MGC:37713 IMAGE:5066120, mRNA, complete cds, Mus musculus, Similar to dynamin 1-like, clone MGC:41233 IMAGE:1395338, mRNA, complete cds, RIKEN cDNA 1200011N24 gene, dynamin 2
3957	17473	NM_053319	pp, tt	dynein, cytoplasmic, light chain 1, dynein, cytoplasmic, light polypeptide	ESTs, Moderately similar to protein inhibitor of nitric oxide synthase [M.musculus], dynein, axon, light chain 4, dynein, axonemal, light polypeptide 4, dynein, cytoplasmic, light chain 1, dynein, cytoplasmic, light polypeptide
3068	21834	NM_012555	x	E26 avian leukemia oncogene 1, 5' domain, v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	E26 avian leukemia oncogene 1, 5' domain, ESTs, Moderately similar to A53988 transcription factor ets-1, splice form a - rat [R.norvegicus], Mus musculus ETS-domain transcription factor mRNA, complete cds, Rattus norvegicus ETS domain transcription factor Pet-1 mRNA, complete cds, v-ets erythroblastosis virus E26 oncogene homolog 1 (avian), v-ets erythroblastosis virus E26 oncogene like (avian)
3068	21835	NM_012555	y	E26 avian leukemia oncogene 1, 5' domain, v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	E26 avian leukemia oncogene 1, 5' domain, ESTs, Moderately similar to A53988 transcription factor ets-1, splice form a - rat [R.norvegicus], Mus musculus ETS-domain transcription factor mRNA, complete cds, Rattus norvegicus ETS domain transcription factor Pet-1 mRNA, complete cds, v-ets erythroblastosis virus E26 oncogene homolog 1 (avian), v-ets erythroblastosis virus E26 oncogene like (avian)
3067	23868	NM_012551	dd, oo, tt	early growth response 1	early growth response 1, expressed sequence A1835008

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3067	23869	NM_012551	oo, tt	early growth response 1	early growth response 1, expressed sequence A1835008
3067	23871	NM_012551	tt, vv	early growth response 1	early growth response 1, expressed sequence A1835008
3067	23872	NM_012551	dd, tt	early growth response 1	early growth response 1, expressed sequence A1835008
3429	16227	NM_019137	gg, hh	early growth response 4	RIKEN cDNA 4930563M09 gene, early growth response 4
2532	23041	AI230130	e	ectonucleoside triphosphate diphosphohydrolase 2	ESTs, Weakly similar to CD39 MOUSE VASCULAR ATP-DIPHOSPHOHYDROLASE [M.musculus], RIKEN cDNA 2010320H07 gene, ecto-apyrase, ectonucleoside triphosphate diphosphohydrolase 1, ectonucleoside triphosphate diphosphohydrolase 3, lysosomal anvrse-like 1
4111	9527	NM_057104	c, q, General, jj	ectonucleotide pyrophosphatase/phosphodies terase 2, ectonucleotide pyrophosphatase/phosphodies terase 2 (autotaxin)	ectonucleotide pyrophosphatase/phosphodiesterase 2, ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin)
3495	1323	NM_019371	t, mm	EGL nine homolog 3 (C. elegans), egl nine homolog 3 (C. elegans)	EGL nine homolog 3 (C. elegans), ESTs, Moderately similar to A53770 growth factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], ESTs, Weakly similar to A53770 growth factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], Mus musculus, Similar to EGL nine homolog 3 (C. elegans), clone MGC:36685 IMAGE:5371854, mRNA, complete cds, egl nine homolog 1 (C. elegans) egl nine homolog 3 (C. elegans)
3495	1324	NM_019371	t, mm	EGL nine homolog 3 (C. elegans), egl nine homolog 3 (C. elegans)	EGL nine homolog 3 (C. elegans), ESTs, Moderately similar to A53770 growth factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], ESTs, Weakly similar to A53770 growth factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], Mus musculus, Similar to EGL nine homolog 3 (C. elegans), clone MGC:36685 IMAGE:5371854, mRNA, complete cds, egl nine homolog 1 (C. elegans) egl nine homolog 3 (C. elegans)
2956	20865	L00117	g, w, rr	elastase 1, pancreatic	elastase 1, pancreatic
3189	1285	NM_012948	r, x	emerin, emerlin (Emery-Dreifuss muscular dystrophy)	emerin, emerlin (Emery-Dreifuss muscular dystrophy)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3599	20925	NM_022594	o	enoyl Coenzyme A hydratase 1, peroxisomal, enoyl coenzyme A hydratase 1, peroxisomal	EST, Moderately similar to Peroxisomal enoyl hydratase-like protein; enoyl hydratase-like protein, peroxisomal [Rattus norvegicus] [R.norvegicus], enoyl Coenzyme A hydratase 1, peroxisomal, enoyl coenzyme A hydratase 1, peroxisomal
2561	18778	AI230982	ww	Eph receptor B2, EphB2	EST, Highly similar to putative protein-tyrosine kinase [Homo sapiens] [H.sapiens], Eph receptor B1, Eph receptor B2, Eph receptor B3, EphB1, expressed sequence AW456895, expressed sequence AW488255
3022	2465	M59814	ee, ww	Eph receptor B2, EphB2	EST, Highly similar to putative protein-tyrosine kinase [Homo sapiens] [H.sapiens], Eph receptor B1, Eph receptor B2, Eph receptor B3, EphB1, expressed sequence AW456895, expressed sequence AW488255
2647	17907	AI233224	t	epidermal growth factor receptor, epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)	EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Homo sapiens truncated epidermal growth factor receptor (EGFR) mRNA, partial cds; alternatively spliced, epidermal growth factor receptor
3155	338	NM_012843	t, ff, mm	epithelial membrane protein 1	epithelial membrane protein 1
3156	17541	NM_012844	l, s, General, ff, ll, ww	epoxide hydrolase 1, microsomal, epoxide hydrolase 1, microsomal (xenobiotic)	epoxide hydrolase 1, microsomal, epoxide hydrolase 1, microsomal (xenobiotic)
2164	23465	AI171243	ww	erythrocyte membrane protein band 4.1-like 3, erythrocyte protein band 4.1-like 3	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived), Homo sapiens, Similar to erythrocyte membrane protein band 4.1-like 3, clone MGC:12343 IMAGE:4044866, mRNA, complete cds, KIAA0793 gene product, erythrocyte membrane protein band 4.1-like 3, erythrocyte protein band 4.1-like 3, erythrocyte protein band 4.1-like 4b, myosin regulatory light chain interacting protein, protein tyrosine phosphatase, non-receptor type 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3377	17561	NM_017245	mm	eukaryotic translation elongation factor 2	ESTs, Highly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], ESTs, Weakly similar to EF2_MOUSE Elongation factor 2 (EF-2) [M.musculus], ESTs, Weakly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], G elongation factor, Mus musculus, Similar to elongation factor G2, clone MGC:28160 IMAGE:3984129, mRNA, complete cds, U5 small nuclear ribonucleoprotein 116 kDa, U5 snRNP-specific protein, 116 kD, eukaryotic translation elongation factor 2, expressed sequence AI451340
3377	17563	NM_017245	gg, hh	eukaryotic translation elongation factor 2	ESTs, Highly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], ESTs, Weakly similar to EF2_MOUSE Elongation factor 2 (EF-2) [M.musculus], ESTs, Weakly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], G elongation factor, Mus musculus, Similar to elongation factor G2, clone MGC:28160 IMAGE:3984129, mRNA, complete cds, U5 small nuclear ribonucleoprotein 116 kDa, U5 snRNP-specific protein, 116 kD, eukaryotic translation elongation factor 2, expressed sequence AI451340
3377	17562	NM_017245	h, t, mt	eukaryotic translation elongation factor 2, mitogen activated protein kinase kinase 2, mitogen-activated protein kinase kinase 2	ESTs, Highly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], ESTs, Weakly similar to EF2_MOUSE Elongation factor 2 (EF-2) [M.musculus], ESTs, Weakly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], G elongation factor, Mus musculus, Similar to elongation factor G2, clone MGC:28160 IMAGE:3984129, mRNA, complete cds, U5 small nuclear ribonucleoprotein 116 kDa, U5 snRNP-specific protein, 116 kD, eukaryotic translation elongation factor 2, expressed sequence AI451340, mitogen activated protein kinase kinase 2
4164	17560	NM_133283	e, t, mm	eukaryotic translation elongation factor 2, mitogen activated protein kinase kinase 2, mitogen-activated protein kinase kinase 2	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3828	14295	NM_031599	f, l, pp	eukaryotic translation initiation factor 2 alpha kinase 3, eukaryotic translation initiation factor 2-alpha kinase 3	EST, Weakly similar to eukaryotic translation initiation factor 2 alpha kinase 3 [Rattus norvegicus] [R.norvegicus], eukaryotic translation initiation factor 2 alpha kinase 3, eukaryotic translation initiation factor 2 alpha kinase 4, eukaryotic translation initiation factor 2-alpha kinase 3
2090	23152	AI169170	xx	eukaryotic translation initiation factor 4A, isoform 2	ESTs, Weakly similar to EUKARYOTIC INITIATION FACTOR 4A-II [M.musculus], eukaryotic translation initiation factor 4A, isoform 2
3509	18714	NM_020075	y	eukaryotic translation initiation factor 5	DNA segment, Chr 1, ERATO Doi 692, expressed, ESTs, Highly similar to EUKARYOTIC TRANSLATION INITIATION FACTOR 5 [R.norvegicus], KIAA1856 protein, eukaryotic translation initiation factor 5
3509	18715	NM_020075	l	eukaryotic translation initiation factor 5	DNA segment, Chr 1, ERATO Doi 692, expressed, ESTs, Highly similar to EUKARYOTIC TRANSLATION INITIATION FACTOR 5 [R.norvegicus], KIAA1856 protein, eukaryotic translation initiation factor 5
3509	18716	NM_020075	p, gg, hh	eukaryotic translation initiation factor 5	DNA segment, Chr 1, ERATO Doi 692, expressed, ESTs, Highly similar to EUKARYOTIC TRANSLATION INITIATION FACTOR 5 [R.norvegicus], KIAA1856 protein, eukaryotic translation initiation factor 5
3458	16449	NM_019238	jj	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1
3458	16450	NM_019238	jj, oo, ss	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1
3458	16451	NM_019238	bb, jj	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1
3458	16452	NM_019238	jj	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1	farnesyl diphosphate farnesyl transferase 1, farnesyl-diphosphate farnesyltransferase 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3910	15069	NM_031840	k, s, jj	farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase), farnesyl diphosphate synthetase	ESTs, Moderately similar to A34713 farnesyl pyrophosphate synthetase, testis - rat [R.norvegicus], ESTs, Weakly similar to A34713 farnesyl-pyrophosphate synthetase, testis - rat [R.norvegicus], farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase)
3910	15070	NM_031840	ii, jj, rr	farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase), farnesyl diphosphate synthetase	ESTs, Moderately similar to A34713 farnesyl pyrophosphate synthetase, testis - rat [R.norvegicus], ESTs, Weakly similar to A34713 farnesyl-pyrophosphate synthetase, testis - rat [R.norvegicus], farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase)
3910	25460	NM_031840	k, jj	farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase), farnesyl diphosphate synthetase	ESTs, Moderately similar to A34713 farnesyl pyrophosphate synthetase, testis - rat [R.norvegicus], ESTs, Weakly similar to A34713 farnesyl-pyrophosphate synthetase, testis - rat [R.norvegicus], farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase)
3158	20819	NM_012847	vv	farnesyltransferase, CAAX box, alpha	farnesyltransferase, CAAX box, alpha
4148	8167	NM_130406	q, ll	Fas (TNFRSF6) associated factor 1, Fas-associated factor 1	DNA segment, Human S2298E, Fas (TNFRSF6) associated factor 1, Fas-associated factor 1, RIKEN cDNA 1300013G12 gene, RIKEN cDNA 4930455J02 gene, expressed sequence A196514, reproduction 8
3653	851	NM_024132	c, kk	fatty acid amide hydrolase, fatty acid hydroxylase	RIKEN cDNA 2700038P16 gene, fatty acid amide hydrolase
3069	17676	NM_012556	g, j	fatty acid binding protein 1, liver	fatty acid binding protein 1, liver
2299	16477	AI176701	jj	fatty acid binding protein 3, muscle and heart, fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)	EST, Moderately similar to FABH MOUSE FATTY ACID-BINDING PROTEIN, HEART [M.musculus], fatty acid binding protein 3, muscle and heart, fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
704	20986	AA893242	o	fatty acid Coenzyme A ligase, long chain 2, fatty-acid-Coenzyme A ligase, long-chain 2	ESTs, Weakly similar to fatty acid Coenzyme A ligase, long chain 2; acetyl-Coenzyme A synthetase; acetate-CoA ligase; acetyl-Coenzyme A synthetase 1 (ADP forming); acetyl-CoA synthetase [Mus musculus] [M.musculus], Mus musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744 IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty acid Coenzyme A ligase, long chain 2, fatty acid Coenzyme A ligase, long chain 5, fatty-acid-Coenzyme A ligase, long-chain 1, gonadotropin-regulated long chain acyl-CoA synthetase, lipidosis-related protein lipidosis
1596	20983	AI044900	o, v	fatty acid Coenzyme A ligase, long chain 2, fatty-acid-Coenzyme A ligase, long-chain 2	ESTs, Weakly similar to fatty acid Coenzyme A ligase, long chain 2; acetyl-Coenzyme A synthetase; acetate-CoA ligase; acetyl-Coenzyme A synthetase 1 (ADP forming); acetyl-CoA synthetase [Mus musculus] [M.musculus], Mus musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744 IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty acid Coenzyme A ligase, long chain 2, fatty acid Coenzyme A ligase, long chain 5, fatty-acid-Coenzyme A ligase, long-chain 1, gonadotropin-regulated long chain acyl-CoA synthetase, lipidosis-related protein lipidosis

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2901	20984	D90109	o, gg, hh, oo, uu	fatty acid Coenzyme A ligase, long chain 2, fatty-acid-Coenzyme A ligase, long-chain 2	ESTs, Weakly similar to fatty acid Coenzyme A ligase, long chain 2; acetyl-Coenzyme A synthetase; acetate-CoA ligase; acetyl-Coenzyme A synthetase 1 (ADP forming); acetyl-CoA synthetase [Mus musculus] [M.musculus], Mus musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744 IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty acid Coenzyme A ligase, long chain 2, fatty acid Coenzyme A ligase, long chain 5, fatty-acid-Coenzyme A ligase, long-chain 1, gonadotropin-regulated long chain acyl-CoA synthetase, lipidosis-related protein lipidosis
4113	3743	NM_057107	nn	fatty acid Coenzyme A ligase, long chain 3, fatty-acid-Coenzyme A ligase, long-chain 3	fatty acid Coenzyme A ligase, long chain 3, fatty-acid-Coenzyme A ligase, long-chain 3
4016	15925	NM_053607	m	fatty acid Coenzyme A ligase, long chain 5, fatty-acid-Coenzyme A ligase, long-chain 5	ESTs, Weakly similar to fatty acid Coenzyme A ligase, long chain 2; acetyl-Coenzyme A synthetase; acetate-CoA ligase; acetyl-Coenzyme A synthetase 1 (ADP forming); acetyl-CoA synthetase [Mus musculus] [M.musculus], Mus musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744 IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty acid Coenzyme A ligase, long chain 2, fatty acid Coenzyme A ligase, long chain 5, fatty-acid-Coenzyme A ligase, long-chain 5, hypothetical protein PPTD NY2
4022	13005	NM_053623	a	fatty acid-Coenzyme A ligase, long chain 4, fatty-acid-Coenzyme A ligase, long-chain 4	
2264	10182	A1176185	tt	FBJ osteosarcoma oncogene, v-fos FBJ murine osteosarcoma viral oncogene homolog	FBJ murine osteosarcoma viral oncogene homolog B, FBJ osteosarcoma oncogene, FBJ osteosarcoma oncogene B, v-fos FBJ murine osteosarcoma viral oncogene homolog



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4066	20868	NM_053843	y, xx	Fc fragment of IgG, low affinity IIIa, receptor for (CD16), Fc receptor, IgG, low affinity III	
3944	12363	NM_033351	oo	Fc fragment of IgG, receptor, transporter, alpha, Fc receptor, IgG, alpha chain transporter	Fc fragment of IgG, receptor, transporter, alpha, Fc receptor, IgG, alpha chain transporter
3944	12364	NM_033351	o	Fc fragment of IgG, receptor, transporter, alpha, Fc receptor, IgG, alpha chain transporter	Fc fragment of IgG, receptor, transporter, alpha, Fc receptor, IgG, alpha chain transporter
3327	21663	NM_017126	l, pp	ferredoxin 1	ferredoxin 1, similar to RIKEN cDNA B230118G17 gene
3573	8214	NM_022500	f, n	ferritin light chain 1, ferritin, light polypeptide	ESTs, Moderately similar to ferritin light chain 1 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to FRL2 MOUSE FERRITIN LIGHT CHAIN 2 [M.musculus], RIKEN cDNA 4933416E14 gene, ferritin light chain 1, ferritin light chain 2, ferritin, light polypeptide
4333	8210	S61960	e	ferritin light chain 1, ferritin, light polypeptide	ESTs, Moderately similar to ferritin light chain 1 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to FRL2 MOUSE FERRITIN LIGHT CHAIN 2 [M.musculus], RIKEN cDNA 4933416E14 gene, ferritin light chain 1, ferritin light chain 2, ferritin, light polypeptide
3965	14042	NM_053348	cc	fetuin B, fetuin beta	expressed sequence AW413091, fetuin B, fetuin beta, histidine-rich glycoprotein
3016	20699	M35601	vv	fibrinogen, A alpha polypeptide, fibrinogen, alpha polypeptide	
3016	20700	M35601	a, r, x, vv	fibrinogen, A alpha polypeptide, fibrinogen, alpha polypeptide	
2112	6479	AI169690	h, l, q	fibrinogen, gamma polypeptide	
3071	6477	NM_012559	dd	fibrinogen, gamma polypeptide	
3157	644	NM_012846	kk	fibroblast growth factor 1, fibroblast growth factor 1 (acidic)	fibroblast growth factor 1, fibroblast growth factor 1 (acidic)
3039	13488	M91599	g, General, uu	fibroblast growth factor receptor 4	
2957	5616	L00191	j	fibronectin 1	EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to PROTEIN-TYROSINE PHOSPHATASE ETA PRECURSOR [M.musculus], fibronectin 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3433	5617	NM_019143	k	fibronectin 1	EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to PROTEIN-TYROSINE PHOSPHATASE ETA PRECURSOR [M.musculus], fibronectin 1
3433	5618	NM_019143	k	fibronectin 1	EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to PROTEIN-TYROSINE PHOSPHATASE ETA PRECURSOR [M.musculus], fibronectin 1
3433	5619	NM_019143	General	fibronectin 1	EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to PROTEIN-TYROSINE PHOSPHATASE ETA PRECURSOR [M.musculus], fibronectin 1
3433	5622	NM_019143	I, ii	fibronectin 1	EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to PROTEIN-TYROSINE PHOSPHATASE ETA PRECURSOR [M.musculus], fibronectin 1
4326	5624	R47122	bb, cc	fibronectin 1	EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to PROTEIN-TYROSINE PHOSPHATASE ETA PRECURSOR [M.musculus], fibronectin 1
4450	20821	X62671	II	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox derived), Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox derived); ribosomal protein S30	EST, Moderately similar to I48346 ribosomal protein fau - mouse [M.musculus], EST, Weakly similar to UBIM_HUMAN UBIQUITIN-LIKE PROTEIN FUBI {SUB 1-74 [H.sapiens], EST, Weakly similar to UBIM_RAT UBIQUITIN-LIKE PROTEIN FUBI [R.norvegicus], Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox derived)
3239	15296	NM_013102	k	FK506 binding protein 1A (12kD), FK506 binding protein 1a (12 kDa), FK506 binding protein 2 (13 kDa), FK506 binding protein 2 (13kD)	FK506 binding protein 10 (65 kDa), FK506 binding protein 1A (12kD), FK506 binding protein 1a (12 kDa), FK506 binding protein 5, FK506 binding protein 7 (23 kDa), FK506 binding protein 8 (38 kDa)
3621	24344	NM_022701	pp	flotillin 1	flotillin 1
3072	11732	NM_012561	p	folistatin	folistatin, transmembrane protein with EGF-like and two folistatin-like domains 1
3131	1260	NM_012743	d	forkhead box A2, hepatocyte nuclear factor 3, beta	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3314	1262	NM_017077	c, v, rr, xx	forkhead box A3, hepatocyte nuclear factor 3, gamma	ESTs, Weakly similar to HN3G_RAT HEPATOCYTE NUCLEAR FACTOR 3-GAMMA (HNF-3G) [R.norvegicus], RIKEN cDNA 1200010K03 gene, expressed sequence A1450827, forkhead box A3, forkhead box B1, hepatocyte nuclear factor 3, gamma
3843	906	NM_031633	ss	forkhead box M1	
3190	1813	NM_012953	l, p, y, z, ee	FOS-like antigen 1, fos-like antigen 1	ESTs, Moderately similar to S15750 transforming protein [H.sapiens], FOS-like antigen 1, fos-like antigen 1
3854	18403	NM_031677	r	four and a half LIM domains 2	EST, Weakly similar to four and a half LIM domains 2 [Rattus norvegicus] [R.norvegicus], activator of CREM in testis, four and a half LIM domains 2, four and a half LIM domains 3, vascular Rab-GAP/TBC-containing
3970	3844	NM_053371	j	fracture callus 1 homolog (rat), fractured callus expressed transcript 1	EST, Moderately similar to IM9B_HUMAN MITOCHONDRIAL IMPORT INNER MEMBRANE TRANSLOCASE SUBUNIT TIM9 B (FRACTURE CALLUS PROTEIN 1) (FXC1) [H.sapiens], fracture callus 1 homolog (rat), fractured callus expressed transcript 1
3290	15620	NM_017005	p	fumarate hydratase, fumarate hydratase 1	fumarate hydratase, fumarate hydratase 1
3354	23961	NM_017181	b, uu, vv	fumarylacetoacetate hydrolase, fumarylacetoacetate hydrolase (fumarylacetoacetase)	ESTs, Weakly similar to FAAA_RAT Fumarylacetoacetase (Fumarylacetoacetate hydrolase) (Beta-diketonase) (FAA) [R.norvegicus], fumarylacetoacetate hydrolase, fumarylacetoacetate hydrolase (fumarylacetoacetase)
3847	18368	NM_031648	k	FXYP domain containing ion transport regulator 1 (phospholemman), FXYP domain-containing ion transport regulator 1	EST, Weakly similar to PLM_HUMAN PHOSPHOLEMMAN PRECURSOR [H.sapiens], FXYP domain containing ion transport regulator 1 (phospholemman), FXYP domain-containing ion transport regulator 1, FXYP domain-containing ion transport regulator 6
3847	18369	NM_031648	s	FXYP domain containing ion transport regulator 1 (phospholemman), FXYP domain-containing ion transport regulator 1	EST, Weakly similar to PLM_HUMAN PHOSPHOLEMMAN PRECURSOR [H.sapiens], FXYP domain containing ion transport regulator 1 (phospholemman), FXYP domain-containing ion transport regulator 1, FXYP domain-containing ion transport regulator 6

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3540	23151	NM_022005	e	FXVD domain-containing ion transport regulator 6	
3849	866	NM_031657	gg, hh, pp	G protein-coupled receptor kinase 6	ESTs, Weakly similar to GRK6 MOUSE G PROTEIN-COUPLED RECEPTOR KINASE GRK6 [M.musculus], G protein-coupled receptor kinase 6, adrenergic receptor kinase, beta 1
656	23180	AA892649	j, l, General, cc	GABA(A) receptor-associated protein, gamma-aminobutyric acid receptor associated protein	ESTs, Weakly similar to GABA(A) receptor- associated protein like 2; ganglioside expression factor 2 [Rattus norvegicus] [R.norvegicus], GABA(A) receptor- associated protein, GABA(A) receptor- associated protein like 1, GABA(A) receptor- associated protein like 2, GABA(A) receptor- associated protein-like 2, GABA(A) receptors associated protein like 3, gamma- aminobutyric acid (GABA(A)) receptor- associated protein-like 1
4138	25693	NM_080783	jj, xx	galactose-4-epimerase, UDP, galactose-4-epimerase, UDP-	EST, Moderately similar to UDP-GLUCOSE 4-EPIMERASE [R.norvegicus], RIKEN cDNA 2610025M23 gene, UDP-glucuronate decarboxylase 1, galactose-4-epimerase, UDP, galactose-4-epimerase, UDP-
3720	15805	NM_031028	g	gamma-aminobutyric acid (GABA) B receptor, 1, gamma- aminobutyric acid (GABA-B) receptor, 1	
3720	15807	NM_031028	s	gamma-aminobutyric acid (GABA) B receptor, 1, gamma- aminobutyric acid (GABA-B) receptor, 1	
3881	11611	NM_031756	w	gamma-glutamyl carboxylase	gamma-glutamyl carboxylase
3380	614	NM_017251	General, rr, uu	gap junction membrane channel protein beta 1, gap junction protein, beta 1, 32kD (connexin 32, Charcot-Marie- Tooth neuropathy, X-linked)	RIKEN cDNA D230044M03 gene, gap junction protein, beta 1, 32kD (connexin 32, Charcot-Marie-Tooth neuropathy, X-linked)
3459	5661	NM_019241	u	gap junction membrane channel protein beta 5, gap junction protein, beta 5 (connexin 31.1)	
2974	15073	L22761	ww	GATA binding protein 4	GATA binding protein 4, GATA binding protein 5, trichorhinophalangeal syndrome I, trichorhinophalangeal syndrome I (human)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1902	18679	AI103496	bb	GDP dissociation inhibitor 1, guanosine diphosphate (GDP) dissociation inhibitor 1	GDP dissociation inhibitor 1, guanosine diphosphate (GDP) dissociation inhibitor 2
3318	1383	NM_017088	General	GDP dissociation inhibitor 1, guanosine diphosphate (GDP) dissociation inhibitor 1	GDP dissociation inhibitor 1, guanosine diphosphate (GDP) dissociation inhibitor 2
3964	18949	NM_053345	f	general transcription factor II A, 2 (12kD subunit), general transcription factor IIA, 2 (12kD subunit)	general transcription factor II A, 2 (12kD subunit), general transcription factor IIA, 2 (12kD subunit)
3721	626	NM_031032	b, h, m, s, x, General, dd, oo	glia maturation factor, beta	glia maturation factor, beta
3430	13715	NM_019139	gg, hh	glial cell derived neurotrophic factor, glial cell line derived neurotrophic factor	glial cell derived neurotrophic factor, glial cell line derived neurotrophic factor, neurturin
3044	1678	M96674	l, General, nn, pp	glucagon receptor	ESTs, Weakly similar to GLUCAGON RECEPTOR PRECURSOR [M.musculus], glucagon receptor
3073	619	NM_012565	h, r, kk	glucokinase, glucokinase (hexokinase 4, maturity onset diabetes of the young 2)	
3824	5496	NM_031589	e, k, l, m, General, dd, qq, ss	glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1, glucose-6-phosphatase, transport protein 1	Mus musculus, Similar to solute carrier family 37 (glycerol-3-phosphate transporter), member 1, clone MGC:28167 IMAGE:3985469, mRNA, complete cds, glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1, glucose-6-phosphatase, transport protein 1, solute carrier family 37 (glycerol-3-phosphate transporter), member 1
3824	5497	NM_031589	a, k, l, qq	glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1, glucose-6-phosphatase, transport protein 1	Mus musculus, Similar to solute carrier family 37 (glycerol-3-phosphate transporter), member 1, clone MGC:28167 IMAGE:3985469, mRNA, complete cds, glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1, glucose-6-phosphatase, transport protein 1, solute carrier family 37 (glycerol-3-phosphate transporter), member 1
3075	4573	NM_012570	l, General	glutamate dehydrogenase, glutamate dehydrogenase 1	glutamate dehydrogenase, glutamate dehydrogenase 1
3075	4574	NM_012570	h, l, p, General, dd, li, uu	glutamate dehydrogenase, glutamate dehydrogenase 1	glutamate dehydrogenase, glutamate dehydrogenase 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3076	20744	NM_012571	e, ll, oo	glutamate oxaloacetate transaminase 1, soluble, glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)	
3077	85	NM_012572	c	glutamate receptor, ionotropic, kainate 4	ESTs, Highly similar to GLK4_HUMAN GLUTAMATE RECEPTOR, IONOTROPIC KAINATE 4 PRECURSOR [H.sapiens], glutamate receptor, ionotropic, kainate 5 (gamma 2)
3078	24504	NM_012574	k	glutamate receptor, ionotropic, N-methyl D-aspartate 2B, glutamate receptor, ionotropic, NMDA2B (epsilon 2)	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
3311	11152	NM_017073	q, z	glutamate-ammonia ligase (glutamine synthase), glutamine synthetase	
3311	11153	NM_017073	q, r, s, z, rr	glutamate-ammonia ligase (glutamine synthase), glutamine synthetase	
3402	14002	NM_017305	qq	glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier subunit	glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier subunit
3402	14003	NM_017305	qq, vv	glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier subunit	glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier subunit
2947	1247	J05181	vv	glutamate-cysteine ligase, catalytic subunit	Homo sapiens, Similar to glutamate-cysteine ligase, catalytic subunit, clone MGC:26341 IMAGE:4814728, mRNA, complete cds, glutamate-cysteine ligase, catalytic subunit
3074	20717	NM_012569	c	glutaminase	ESTs, Highly similar to GLSK RAT GLUTAMINASE, KIDNEY ISOFORM PRECURSOR [R.norvegicus], ESTs, Moderately similar to GLSK_HUMAN GLUTAMINASE, KIDNEY ISOFORM, MITOCHONDRIAL PRECURSOR (GLS) (L-GLUTAMINE AMIDOHYDROLASE) (K-GLUTAMINASE) [H.sapiens], Homo sapiens glutaminase isoform M precursor, mRNA, complete cds, expressed sequence A1314027 glutaminase
231	5331	AA818996	ii, rr	glutaminyl-tRNA synthetase	glutaminyl-tRNA synthetase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1967	23596	AI105435	uu, vv	glutaryl-Coenzyme A dehydrogenase	expressed sequence AI266902, expressed sequence D17825, glutaryl-Coenzyme A dehydrogenase
3689	1853	NM_030826	g	glutathione peroxidase 1	ESTs, Weakly similar to GSHC_RAT Glutathione peroxidase (GSHPX-1) (Cellular glutathione peroxidase) [R.norvegicus], glutathione peroxidase 1, glutathione peroxidase 2, glutathione peroxidase 2 (gastrointestinal)
3347	17686	NM_017165	o	glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid hydroperoxidase)	ESTs, Weakly similar to GSHH_RAT Phospholipid hydroperoxide glutathione peroxidase, mitochondrial precursor (PHGPx) (GPX-4) [R.norvegicus], RIKEN cDNA 2310016C16 gene, RIKEN cDNA 3110050F08 gene, glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid hydroperoxidase)
3292	18989	NM_017013	qq, vv	glutathione S-transferase A2, glutathione S-transferase, alpha 2 (Yc2)	ESTs, Weakly similar to GTA1_RAT GLUTATHIONE S-TRANSFERASE YA (LIGANDIN) (CHAIN 1) (GST CLASS-ALPHA) (CLONES PGST94 & PGTR261) [R.norvegicus], glutathione S-transferase A2, glutathione S-transferase, alpha 2 (Yc2)
3796	18990	NM_031509	e	glutathione S-transferase A2, glutathione S-transferase, alpha 2 (Yc2)	ESTs, Weakly similar to GTA1_RAT GLUTATHIONE S-TRANSFERASE YA (LIGANDIN) (CHAIN 1) (GST CLASS-ALPHA) (CLONES PGST94 & PGTR261) [R.norvegicus], glutathione S-transferase A2, glutathione S-transferase, alpha 2 (Yc2)
2926	21011	H32189	nn	glutathione S-transferase M2 (muscle), glutathione S-transferase, mu 2	
2942	21012	J02592	b, l, General, gg, hh, kk, ll	glutathione S-transferase M2 (muscle), glutathione S-transferase, mu 2	
2945	21014	J03914	b, l, o, x, General, ll, rr	glutathione S-transferase M2 (muscle), glutathione S-transferase, mu 2	
3293	21013	NM_017014	cc	glutathione S-transferase M2 (muscle), glutathione S-transferase, mu 2	
3293	21015	NM_017014	s, cc	glutathione S-transferase M2 (muscle), glutathione S-transferase, mu 2	

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1246	14583	AB008807	dd, uu	glutathione S-transferase omega 1, glutathione-S-transferase like; glutathione transferase omega	ESTs, Weakly similar to GTO1_RAT Glutathione transferase omega 1 (GSTO 1-1) (Glutathione-dependent dehydroascorbate reductase) [R.norvegicus], ESTs, Weakly similar to GTXH_HUMAN GLUTATHIONE-S-TRANSFERASE HOMOLO [H.sapiens], RIKEN cDNA 1700020F09 gene, glutathione S-transferase omega 1, glutathione transferase zeta 1 (maleylacetoacetate isomerase), glutathione S-transferase like; glutathione transferase omega
1246	25148	AB008807	bb	glutathione S-transferase omega 1, glutathione-S-transferase like; glutathione transferase omega	
3953	1524	NM_053293	General	glutathione S-transferase theta 1, glutathione S-transferase, theta 1	expressed sequence A118089, glutathione S-transferase theta 1, glutathione S-transferase, theta 1
3143	961	NM_012796	p	glutathione S-transferase theta 2, glutathione S-transferase, theta 2	glutathione S-transferase theta 2, glutathione S-transferase, theta 2
2980	6406	L38615	v	glutathione synthetase	EST, Highly similar to GSHB MOUSE GLUTATHIONE SYNTHETASE [M.musculus], glutathione synthetase
3291	8417	NM_017008	l	glyceraldehyde-3-phosphate dehydrogenase	ESTs, Moderately similar to G3P MOUSE GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE [M.musculus], Mus musculus 12 days embryo head cDNA, RIKEN full-length enriched library, clone:3000002C10:glyceraldehyde-3-phosphate dehydrogenase, full insert sequence, RIKEN cDNA 4930448K20 gene, glyceraldehyde-3-phosphate dehydrogenase
3673	20380	NM_024381	o	glycerol kinase	ESTs, Weakly similar to GLPK MOUSE GLYCEROL KINASE [M.musculus], RIKEN cDNA 2310009E04 gene, glucokinase activity, related sequence 1, glucokinase activity, related sequence 2, glycerol kinase, glycerol kinase pseudogene 2
3317	1550	NM_017084	uu	glycine N-methyltransferase	glycine N-methyltransferase
3317	1551	NM_017084	uu	glycine N-methyltransferase	glycine N-methyltransferase
3317	1552	NM_017084	g, uu	glycine N-methyltransferase	glycine N-methyltransferase



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4058	16311	NM_053818	j	glycine transporter 1, solute carrier family 6 (neurotransmitter transporter, glycine), member 9	
3932	590	NM_032080	b, c, m, kk	glycogen synthase kinase 3 beta	RIKEN cDNA 9130221H12 gene, glycogen synthase kinase 3 beta
3932	591	NM_032080	b, c, l, z, General, tt, vv	glycogen synthase kinase 3 beta	RIKEN cDNA 9130221H12 gene, glycogen synthase kinase 3 beta
4167	19456	NM_133298	l, cc, qq, uu	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
4167	4048	NM_133298	l, cc, qq, uu	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
4167	4049	NM_133298	l, cc, tt, uu	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
196	16756	AA818089	q, z	glycyl-tRNA synthetase	glycyl-tRNA synthetase
4004	21154	NM_053584	m, z, dd, ee	golgi SNAP receptor complex member 1	Homo sapiens, Similar to golgi SNAP receptor complex member 1, clone MGC:13657 IMAGE:4250494, mRNA, complete cds, golgi SNAP receptor complex member 1
3858	1004	NM_031685	m, x, dd	golgi SNAP receptor complex member 2	golgi SNAP receptor complex member 2
3324	20745	NM_017113	a, k, l, cc, tt, uu	granulin	granulin
3324	20746	NM_017113	a, j, l, cc, ss, uu, vv	granulin	granulin
3650	352	NM_024127	s, General	growth arrest and DNA- damage-inducible 45 alpha, growth arrest and DNA- damage-inducible, alpha	growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage- inducible 45 beta, growth arrest and DNA- damage-inducible, alpha
3650	353	NM_024127	n, z, General, ee, kk, qq, ww	growth arrest and DNA- damage-inducible 45 alpha, growth arrest and DNA- damage-inducible, alpha	growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage- inducible 45 beta, growth arrest and DNA- damage-inducible, alpha
3650	354	NM_024127	n, r, General, qq, vv	growth arrest and DNA- damage-inducible 45 alpha, growth arrest and DNA- damage-inducible, alpha	growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage- inducible 45 beta, growth arrest and DNA- damage-inducible, alpha
1715	17506	AI070068	n, kk	growth arrest and DNA- damage-inducible, beta	growth arrest and DNA-damage-inducible 45 beta, growth arrest and DNA-damage- inducible, alpha, growth arrest and DNA- damage-inducible, beta

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3840	15767	NM_031623	n, y, z, General, dd	growth factor receptor bound protein 14, growth factor receptor-bound protein 14	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein, growth factor receptor bound protein 10, growth factor receptor bound protein 14, growth factor receptor-bound protein 10, growth factor receptor-bound protein 14
1376	17524	AI010568	ss	growth hormone receptor	growth hormone receptor
3819	939	NM_031577	z	growth hormone releasing hormone	
3687	862	NM_024487	w	GrpE-like 1, mitochondrial, GrpE-like protein cochaperone	
3492	1070	NM_019368	f, q, z	GS15, blocked early in transport 1 homolog (S. cerevisiae)-like	
3667	15350	NM_024356	p	GTP cyclohydrolase 1, GTP cyclohydrolase 1 (dopa-responsive dystonia)	GTP cyclohydrolase 1, GTP cyclohydrolase 1 (dopa-responsive dystonia)
3142	16947	NM_012793	a, b, e, m, s, z, General, qq, uu, vv	guanidinoacetate N-methyltransferase, guanidinoacetate methyltransferase	expressed sequence AA571402, guanidinoacetate N-methyltransferase, guanidinoacetate methyltransferase
3142	16948	NM_012793	qq, uu	guanidinoacetate N-methyltransferase, guanidinoacetate methyltransferase	expressed sequence AA571402, guanidinoacetate N-methyltransferase, guanidinoacetate methyltransferase
3722	690	NM_031034	t, v, General, mm	guanine nucleotide binding protein (G protein) alpha 12, guanine nucleotide binding protein, alpha 12	ESTs, Moderately similar to guanine nucleotide binding protein (G protein) alpha 12 [Rattus norvegicus] [R.norvegicus], guanine nucleotide binding protein (G protein), alpha 13, guanine nucleotide binding protein, alpha 12, guanine nucleotide binding protein, alpha 13
3722	691	NM_031034	t, mm	guanine nucleotide binding protein (G protein) alpha 12, guanine nucleotide binding protein, alpha 12	ESTs, Moderately similar to guanine nucleotide binding protein (G protein) alpha 12 [Rattus norvegicus] [R.norvegicus], guanine nucleotide binding protein (G protein), alpha 13, guanine nucleotide binding protein, alpha 12, guanine nucleotide binding protein, alpha 13

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
184	2143	AA817892	e, gg, hh, jj	guanine nucleotide binding protein (G protein), beta polypeptide 2, guanine nucleotide binding protein, beta 2	ESTs, Weakly similar to C Chain C, Apaf-1 Card In Complex With Prodomain Of Procaspase-9 {SUB 1-95 [H.sapiens], Homo sapiens mRNA expressed only in placental villi, clone SMAP5, PWP2 periodic tryptophan protein homolog (yeast), Rattus norvegicus guanine nucleotide binding protein beta 4 subunit mRNA, partial cds, guanine nucleotide binding protein (G protein), beta polypeptide 2, guanine nucleotide binding protein, beta 2
4156	14959	NM_130734	h, x, General, dd, ee	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, guanine nucleotide binding protein, beta 2, related sequence 1	EST, Weakly similar to B33928 GTP-binding protein beta chain homolog [H.sapiens], EST, Weakly similar to GBLP_HUMAN GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [H.sapiens], Homo sapiens cDNA: FLJ21913 fis, clone HEP03888, Mus musculus, Similar to hypothetical protein FLJ10385, clone MGC:28622 IMAGE:4220923, mRNA, complete cds, expressed sequence AL033335, guanine nucleotide binding protein (G protein), beta polypeptide 1-like, guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, guanine nucleotide binding protein, beta 2, related sequence 1
2168	14960	AI171319	gg, hh	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, guanine nucleotide binding protein, beta 2, related sequence 1	EST, Weakly similar to B33928 GTP-binding protein beta chain homolog [H.sapiens], EST, Weakly similar to GBLP_HUMAN GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [H.sapiens], Homo sapiens cDNA: FLJ21913 fis, clone HEP03888, Mus musculus, Similar to hypothetical protein FLJ10385, clone MGC:28622 IMAGE:4220923, mRNA, complete cds, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1, expressed sequence AL033335, guanine nucleotide binding protein (G protein), beta polypeptide 1-like, guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, guanine nucleotide binding protein, beta 2, related

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3656	1878	NM_024138	cc	guanine nucleotide binding protein (G protein), gamma 7, guanine nucleotide binding protein (G protein), gamma 7 subunit	guanine nucleotide binding protein (G protein), gamma 12, guanine nucleotide binding protein (G protein), gamma 7
3079	16024	NM_012578	m	H1 histone family, member 0	H1 histone family, member 0, H1 histone family, member O (oocyte-specific)
3079	16025	NM_012578	m, ww	H1 histone family, member 0	H1 histone family, member 0, H1 histone family, member O (oocyte-specific)
3079	16026	NM_012578	m, ww	H1 histone family, member 0	H1 histone family, member 0, H1 histone family, member O (oocyte-specific)
3612	17661	NM_022674	c, d, oo, xx	H2A histone family, member Z	EST, Weakly similar to histone H2A.F/Z variant [Homo sapiens] [H.sapiens], ESTs, Highly similar to S03644 histone H2A.Z - rat [R.norvegicus], ESTs, Weakly similar to H2AZ_HUMAN HISTONE H2A [H.sapiens], H2A histone family, member Z, Homo sapiens cDNA FLJ32241 fis, clone PLACE6005231, RIKEN cDNA C530002L11 gene, histone H2A.F/Z variant
3192	5034	NM_012966	v	heat shock 10 kDa protein 1 (chaperonin 10), heat shock 10kD protein 1 (chaperonin 10)	ESTs, Weakly similar to S47532 chaperonin groES [H.sapiens], expressed sequence AW108200, heat shock 10 kDa protein 1 (chaperonin 10), heat shock 10kD protein 1 (chaperonin 10)
2989	1466	M14050	p, q, General, dd, ff	heat shock 70kD protein 5 (glucose-regulated protein, 78kD)	EST, Weakly similar to GR78_RAT 78 KD GLUCOSE-REGULATED PROTEIN PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING PROTEIN) (BIP) (STEROIDOGENESIS-ACTIVATOR POLYPEPTIDE) [R.norvegicus], expressed sequence AL022860, heat shock 70kD protein 5 (glucose-regulated protein, 78kD)
3665	17764	NM_024351	h, l, w, uu	heat shock 70kD protein 8	EST, Moderately similar to HS7C_HUMAN HEAT SHOCK COGNATE 71 KDA PROTEIN [H.sapiens], EST, Weakly similar to A27077 dnaK-type molecular chaperone [H.sapiens], EST, Weakly similar to A45935 dnaK-type molecular chaperone hsc70 - mouse [M.musculus], ESTs, Moderately similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN [M.musculus], ESTs, Weakly similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN [M.musculus], heat shock 70kD protein 8

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title	
3665	17765	NM_024351	I	heat shock 70kD protein 8	EST, Moderately similar to HS7C_HUMAN HEAT SHOCK COGNATE 71 KDA PROTEIN [H.sapiens], EST, Weakly similar to A27077 dnaK-type molecular chaperone [H.sapiens], EST, Weakly similar to A45935 dnaK-type molecular chaperone hsc70 - mouse [M.musculus], ESTs, Moderately similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN [M.musculus], ESTs, Weakly similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN [M.musculus], heat shock 70kD protein 8	
3869	21693	NM_031714	p, tt	heat-responsive protein 12, translational inhibitor protein p14.5	Mus musculus adult male liver cDNA, RIKEN full-length enriched library, clone:1300015121:heat-responsive protein 12, full insert sequence, heat-responsive protein 12, translational inhibitor protein p14.5	
2427	16081	AI179610	s, rr	heme oxygenase (decycling) 1	heme oxygenase (decycling) 1	
1256	19702	AF008587	p	hemochromatosis	EST, Highly similar to HFE_HUMAN HEREDITARY HAEMOCHROMATOSIS PROTEIN PRECURSOR [H.sapiens], hemochromatosis	
499	18897	AA875207	g	hemoglobin beta chain complex, hemoglobin, beta	EST, Moderately similar to HBB1_RAT Hemoglobin beta chain, major-form [R.norvegicus], expressed sequence AI036344, hemoglobin, beta, hemoglobin, beta adult major chain, hemoglobin, beta adult minor chain, hemoglobin, delta	
3940	17829	NM_033234	v	hemoglobin beta chain complex, hemoglobin, beta	EST, Moderately similar to HBB1_RAT Hemoglobin beta chain, major-form [R.norvegicus], expressed sequence AI036344, hemoglobin, beta, hemoglobin, beta adult major chain, hemoglobin, beta adult minor chain, hemoglobin, delta	
3543	25699	NM_022180	General; tt	hepatic nuclear factor 4, hepatocyte nuclear factor 4, alpha	ESTs, Weakly similar to HEPATOCYTE NUCLEAR FACTOR 4 [M.musculus], Mus musculus, clone IMAGE:4990763, mRNA, hepatic nuclear factor 4, hepatocyte nuclear factor 4, alpha	
3543	20257	NM_022180	General	hepatic nuclear factor 4, hepatocyte nuclear factor 4, alpha	ESTs, Weakly similar to HEPATOCYTE NUCLEAR FACTOR 4 [M.musculus], Mus musculus, clone IMAGE:4990763, mRNA, hepatic nuclear factor 4, hepatocyte nuclear factor 4, alpha	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3295	649	NM_017017	cc	hepatocyte growth factor, hepatocyte growth factor (hepapoietin A; scatter factor)	hepatocyte growth factor, hepatocyte growth factor (hepapoietin A; scatter factor)
3666	844	NM_024352	h, l, n, uu	hepatocyte growth factor-like, macrophage stimulating 1 (hepatocyte growth factor-like)	
3982	22586	NM_053469	a, n, y	hepcidin antimicrobial peptide	hepcidin antimicrobial peptide
3323	1548	NM_017112	b, General	hepsin, hepsin (transmembrane protease, serine 1)	ESTs, Weakly similar to HEPS_RAT SERINE PROTEASE HEPSIN [R.norvegicus], ESTs, Weakly similar to TMS2_MOUSE TRANSMEMBRANE PROTEASE, SERINE 2 (EPITHELIASIN) (PLASMIC TRANSMEMBRANE PROTEIN X) [M.musculus], Mus musculus airway trypsin-like protease mRNA, complete cds, Mus musculus, Similar to transmembrane protease, serine 4, clone MGC:29209 IMAGE:5030266, mRNA, complete cds, hepsin, hepsin (transmembrane protease, serine 1)
3783	4234	NM_031330	m, ff	heterogeneous nuclear ribonucleoprotein A/B	DAZ associated protein 1, Musashi homolog 1 (Drosophila), Musashi homolog 2 (Drosophila), RIKEN cDNA 4933434H11 gene, expressed sequence AA959857, heterogeneous nuclear ribonucleoprotein A/B, musashi homolog 1 (Drosophila)
3379	17502	NM_017248	rr	heterogeneous nuclear ribonucleoprotein A1	ESTs, Highly similar to I52962 FBRNP [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar to ROA1_RAT Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP) [R.norvegicus], Homo sapiens cDNA: FLJ22720 fis, clone HSI14320, Mus musculus, Similar to TAR DNA binding protein, clone MGC:19284 IMAGE:4016437, mRNA, complete cds, RIKEN cDNA 4930547K05 gene, heterogeneous nuclear ribonucleoprotein A1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3379	15012	NM_017248	kk	heterogeneous nuclear ribonucleoprotein A1	ESTs, Highly similar to I52962 FBRNP [H.sapiens], ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar to ROA1_RAT Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP) [R.norvegicus], Homo sapiens cDNA: FLJ22720 fis, clone HSI14320, Mus musculus, Similar to TAR DNA binding protein, clone MGC:19284 IMAGE:4016437, mRNA, complete cds, RIKEN cDNA 2610510D13 gene, RIKEN cDNA 4930547K05 gene, heterogeneous nuclear ribonucleoprotein A1, heterogeneous nuclear ribonucleoprotein A3
4122	2413	NM_057141	l, n	heterogeneous nuclear ribonucleoprotein K	ESTs, Highly similar to heterogeneous nuclear ribonucleoprotein K, isoform b; dC-stretch binding protein; transformation upregulated nuclear protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to heterogeneous nuclear ribonucleoprotein K [Rattus norvegicus] [R.norvegicus], heterogeneous nuclear ribonucleoprotein K, poly(rC) binding protein 3, poly(rC) binding protein 4
4122	2416	NM_057141	w	heterogeneous nuclear ribonucleoprotein K	ESTs, Highly similar to heterogeneous nuclear ribonucleoprotein K, isoform b; dC-stretch binding protein; transformation upregulated nuclear protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to heterogeneous nuclear ribonucleoprotein K [Rattus norvegicus] [R.norvegicus], heterogeneous nuclear ribonucleoprotein K, poly(rC) binding protein 3, poly(rC) binding protein 4
885	16945	AA925541	c	heterogeneous nuclear ribonucleoprotein L	heterogeneous nuclear ribonucleoprotein L

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1666	19835	AI058964	II	heterogeneous nuclear ribonucleoprotein U, heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	E1B-55kDa-associated protein 5, EST, Weakly similar to heterogeneous nuclear ribonucleoprotein U; scaffold attachment factor A; nuclear matrix protein sp120 [Mus musculus] [M.musculus], expressed sequence AI465155, heterogeneous nuclear ribonucleoprotein U
4121	19834	NM_057139	v	heterogeneous nuclear ribonucleoprotein U, heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	E1B-55kDa-associated protein 5, EST, Weakly similar to heterogeneous nuclear ribonucleoprotein U; scaffold attachment factor A; nuclear matrix protein sp120 [Mus musculus] [M.musculus], expressed sequence AI465155, heterogeneous nuclear ribonucleoprotein U
3127	1372	NM_012734	xx	hexokinase 1	ESTs, Weakly similar to A35244 hexokinase [M.musculus], Mus musculus, Similar to hexokinase 1, clone MGC:28816 IMAGE:4504302, mRNA, complete cds, hexokinase 1
1299	10108	AI007857	b, General, dd	HGF-regulated tyrosine kinase substrate, hepatocyte growth factor-regulated tyrosine kinase substrate	ESTs, Weakly similar to HGF-regulated tyrosine kinase substrate [Mus musculus] [M.musculus], HGF-regulated tyrosine kinase substrate, RIKEN cDNA 1700013B03 gene, WD40- and FYVE-domain containing protein 2, hepatocyte growth factor-regulated tyrosine kinase substrate, myotubularin related protein 3, phosphoinositide-binding protein SR1, target of myb1 homolog (chicken), zinc finger protein, subfamily 2A (FYVE domain containing), 1
4145	24604	NM_080906	r, pp	HIF-1 responsive RTP801, RIKEN cDNA 5830413E08 gene	HIF-1 responsive RTP801, Homo sapiens, Similar to RIKEN cDNA 1700037B15 gene, clone MGC:9960 IMAGE:3877854, mRNA, complete cds
3355	15434	NM_017187	y	high mobility group box 2, high-mobility group (nonhistone chromosomal) protein 2	EST, Moderately similar to HMG2_RAT High mobility group protein 2 (HMG-2) [R.norvegicus], ESTs, Weakly similar to 2001363A high mobility group protein 2 [H.sapiens], ESTs, Weakly similar to HMG2_RAT High mobility group protein 2 (HMG-2) [R.norvegicus], Homo sapiens, clone MGC:33358 IMAGE:5266418, mRNA, complete cds, RIKEN cDNA 2610021J01 gene, expressed sequence C80539, high mobility group box 2, high-mobility group (nonhistone chromosomal) protein 2



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3355	15437	NM_017187	r, y, ww	high mobility group box 2, high-mobility group (nonhistone chromosomal) protein 2	EST, Moderately similar to HMG2_RAT High mobility group protein 2 (HMG-2) [R.norvegicus], ESTs, Weakly similar to 2001363A high mobility group protein 2 [H.sapiens], ESTs, Weakly similar to HMG2_RAT High mobility group protein 2 (HMG-2) [R.norvegicus], Homo sapiens, clone MGC:33358 IMAGE:5266418, mRNA, complete cds, RIKEN cDNA 2610021J01 gene, expressed sequence C80539, high mobility group box 2, high-mobility group (nonhistone chromosomal) protein 2
3344	70	NM_017159	b, c, y	histidine ammonia lyase, histidine ammonia-lyase	histidine ammonia lyase, histidine ammonia-lyase
592	17345	AA892014	c	HLA-B associated transcript 1, HLA-B-associated transcript 1A	ESTs, Highly similar to S33681 translation initiation factor eIF-4A.I [H.sapiens], ESTs, Weakly similar to A42811 nuclear RNA helicase (DEAD family) homolog - rat [R.norvegicus], RIKEN cDNA 2610307C23 gene, hypothetical protein MGC6664
592	17346	AA892014	k	HLA-B associated transcript 1, HLA-B-associated transcript 1A	ESTs, Highly similar to S33681 translation initiation factor eIF-4A.I [H.sapiens], ESTs, Weakly similar to A42811 nuclear RNA helicase (DEAD family) homolog - rat [R.norvegicus], RIKEN cDNA 2610307C23 gene, hypothetical protein MGC6664

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3670	20772	NM_024363	c, v, oo	HMT1 hnRNP methyltransferase-like 2 (S. cerevisiae), heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae)	EST, Moderately similar to ANM1_HUMAN PROTEIN ARGININE N-METHYLTRANSFERASE 1 [H.sapiens], EST, Weakly similar to ANM1_HUMAN PROTEIN ARGININE N-METHYLTRANSFERASE 1 [H.sapiens], ESTs, Moderately similar to ANM1_MOUSE PROTEIN ARGININE N-METHYLTRANSFERASE 1 [M.musculus], ESTs, Weakly similar to ANM1_MOUSE PROTEIN ARGININE N-METHYLTRANSFERASE 1 [M.musculus], HMT1 hnRNP methyltransferase-like 2 (S. cerevisiae), RIKEN cDNA 2410018A17 gene, coactivator-associated arginine methyltransferase 1, coactivator-associated arginine methyltransferase-1, heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae), heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae),
3733	7351	NM_031059	g	homeo box, msh-like 1, msh homeo box homolog 1 (Drosophila)	homeo box, msh-like 1, homeo box, msh-like 3, msh homeo box homolog 1 (Drosophila), spinal cord axial homeobox gene 1
3956	15749	NM_053309	cc	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 2	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 1
3956	15750	NM_053309	e	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 2	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 1
3956	15751	NM_053309	x	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 2	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 1
2592	573	AI232087	h, l, m, qq	hydroxyacid oxidase (glycolate oxidase) 3, hydroxyacid oxidase 3 (medium-chain)	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3943	1409	NM_033349	t, jj	hydroxyacyl glutathione hydrolase	ESTs, Highly similar to GLO2_HUMAN HYDROXYACYLGLUTATHIONE HYDROLASE [H.sapiens], Mus musculus, Similar to hydroxyacyl glutathione hydrolase, clone MGC:6697 IMAGE:3583919, mRNA, complete cds, RIKEN cDNA 0610025L15 gene, RIKEN cDNA 1500017E18 gene, brain protein 17, hydroxyacyl glutathione hydrolase
3316	23660	NM_017080	a, l, vv	hydroxysteroid (11-beta) dehydrogenase 1, hydroxysteroid 11-beta dehydrogenase 1	ESTs, Weakly similar to DH11_RAT Corticosteroid 11-beta-dehydrogenase, isozyme 1 (11-DH) (11-beta-hydroxysteroid dehydrogenase 1) (11-beta-HSD1) [R.norvegicus], Mus musculus, Similar to hydroxysteroid 17-beta dehydrogenase 11, clone MGC:30360 IMAGE:5132342, mRNA, complete cds, Mus musculus, clone MGC:6908 IMAGE:2655855, mRNA, complete cds, hydroxysteroid (11-beta) dehydrogenase 1, hydroxysteroid 11-beta dehydrogenase 1, retinal short-chain dehydrogenase/reductase retSDR2
3372	21743	NM_017235	jj	hydroxysteroid (17-beta) dehydrogenase 7	ESTs, Highly similar to DHB7_RAT ESTRADIOL 17 BETA-DEHYDROGENASE 7 (17-BETA-HSD 7) (17-BETA-HYDROXYSTEROID DEHYDROGENASE 7) (PRL RECEPTOR ASSOCIATED PROTEIN) (PRAP) [R.norvegicus], PAN2 protein, RIKEN cDNA 3110030G19 gene, WW domain-containing oxidoreductase, hydroxysteroid (17-beta) dehydrogenase 7
3372	21744	NM_017235	bb, ii, jj	hydroxysteroid (17-beta) dehydrogenase 7	PAN2 protein, RIKEN cDNA 3110030G19 gene, WW domain-containing oxidoreductase, hydroxysteroid (17-beta) dehydrogenase 7, hydroxysteroid 17-beta dehydrogenase 7
3027	13547	M63983	e	hypoxanthine guanine phosphoribosyl transferase, hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)	EST, Moderately similar to The Crystal Structure Of Icam-2 {SUB 25-216 [H.sapiens], ESTs, Weakly similar to S18140 hypoxanthine phosphoribosyltransferase (EC 2.4.2.8) - rat [R.norvegicus], hypoxanthine guanine phosphoribosyl transferase, hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1257	20438	AF009656	e, u	hypoxanthine guanine phosphoribosyl transferase, hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)	ESTs, Weakly similar to S18140 hypoxanthine phosphoribosyltransferase (EC 2.4.2.8) - rat [R.norvegicus], hypoxanthine guanine phosphoribosyl transferase, hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)
3668	1146	NM_024359	a, m	hypoxia inducible factor 1, alpha subunit, hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	Mus musculus inhibitory PAS domain protein (Ipas) mRNA, complete cds, hypoxia inducible factor 1, alpha subunit, hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor), neuronal PAS domain protein 1, single-minded 1, single-minded 2, single-minded homolog 1 (Drosophila)
3668	1148	NM_024359	a	hypoxia inducible factor 1, alpha subunit, hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	Mus musculus inhibitory PAS domain protein (Ipas) mRNA, complete cds, hypoxia inducible factor 1, alpha subunit, hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor), neuronal PAS domain protein 1, single-minded 1, single-minded 2, single-minded homolog 1 (Drosophila)
3662	22079	NM_024157	a, General, uu, vv	I factor (complement), complement component factor i	I factor (complement), complement component factor i
3011	23610	M32754	I	inhibin alpha, inhibin, alpha	inhibin alpha, inhibin, alpha
3144	10248	NM_012797	ff	inhibitor of DNA binding 1, inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	
2031	16510	AI137583	b, w, ii, rr, tt	inhibitor of DNA binding 2, inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	ESTs, Weakly similar to JC2112 helix-loop-helix protein, Id2 - rat [R.norvegicus], inhibitor of DNA binding 2, inhibitor of DNA binding 2, dominant negative helix-loop-helix protein, inhibitor of DNA binding 4, inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
3226	16511	NM_013060	rr	inhibitor of DNA binding 2, inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	ESTs, Weakly similar to JC2112 helix-loop-helix protein, Id2 - rat [R.norvegicus], inhibitor of DNA binding 2, inhibitor of DNA binding 2, dominant negative helix-loop-helix protein, inhibitor of DNA binding 4, inhibitor of DNA binding 4, dominant negative helix-loop-helix protein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4143	13424	NM_080899	ww	inhibitor of kappa light polypeptide enhancer in B-cells, kinase complex-associated protein, inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein
3928	18640	NM_032057	p, ee	inositol (myo)-1(or 4)-monophosphatase 1, inositol(myo)-1(or 4)-monophosphatase 1	inositol (myo)-1(or 4)-monophosphatase 1, inositol (myo)-1(or 4)-monophosphatase 2, inositol(myo)-1(or 4)-monophosphatase 1
3250	1712	NM_013138	nn	inositol 1,4,5-triphosphate receptor 3, inositol 1,4,5-triphosphate receptor, type 3	ESTs, Highly similar to IP3R MOUSE INOSITOL 1,4,5-TRISPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR [M.musculus], ESTs, Moderately similar to IP3R MOUSE INOSITOL 1,4,5-TRISPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR [M.musculus], ESTs, Moderately similar to IP3S_MOUSE_1 [Segment 1 of 2] Inositol 1,4,5-triphosphate receptor type 2 (Type 2 inositol 1,4,5-triphosphate receptor) (Type 2 InsP3 receptor) (IP3 receptor isoform 2) (InsP3R2) (Inositol 1,4,5-triphosphate type V receptor) (Fragments) [M.musculus], ESTs, Weakly similar to IP3R MOUSE INOSITOL 1,4,5-TRISPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR [M.musculus], inositol 1,4,5-triphosphate receptor 1, inositol 1,4,5-triphosphate receptor 3, inositol 1,4,5-triphosphate
3635	19669	NM_022944	x	inositol polyphosphate phosphatase-like 1	EWS/FLI1 activated transcript 2, SH2 domain protein 1A, inositol polyphosphate phosphatase-like 1
2992	21053	M15481	qq	insulin-like growth factor 1, insulin-like growth factor 1 (somatomedin C)	
4406	21054	X06107	g, v	insulin-like growth factor 1, insulin-like growth factor 1 (somatomedin C)	
1428	24411	AI012577	h, z	insulin-like growth factor 2, insulin-like growth factor 2 (somatomedin A)	insulin-like growth factor 2, insulin-like growth factor 2 (somatomedin A)
2995	24407	M17960	v	insulin-like growth factor 2, insulin-like growth factor 2 (somatomedin A)	insulin-like growth factor 2, insulin-like growth factor 2 (somatomedin A)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3798	24410	NM_031511	g	insulin-like growth factor 2, insulin-like growth factor 2 (somatomedin A)	insulin-like growth factor 2, insulin-like growth factor 2 (somatomedin A)
3959	25480	NM_053329	x	insulin-like growth factor binding protein, acid labile subunit	ESTs, Weakly similar to A41915 insulin-like growth factor-binding complex acid-labile chain precursor [H.sapiens], ESTs, Weakly similar to ALS MOUSE INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN COMPLEX ACID LABILE CHAIN PRECURSOR [M.musculus], RIKEN cDNA 1200009O22 gene, glycoprotein A repetitions predominant, glycoprotein Ib (platelet), alpha polypeptide, insulin-like growth factor binding protein, acid labile subunit, toll-like receptor 3, toll-like receptor 4, toll-like receptor 5
4454	16413	X65036	oo	integrin alpha 7, integrin, alpha 7	integrin alpha 6, integrin alpha 7, integrin, alpha 6, integrin, alpha 7
4454	16414	X65036	u	integrin alpha 7, integrin, alpha 7	integrin alpha 6, integrin alpha 7, integrin, alpha 6, integrin, alpha 7
2330	14989	AI177366	b	integrin beta 1 (fibronectin receptor beta), integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	integrin beta 1 (fibronectin receptor beta), integrin beta 2, integrin beta 7, integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12), integrin, beta 2 (antigen CD18 (p95); lymphocyte function-associated antigen 1; macrophage antigen 1 (mac-1) beta subunit), integrin, beta 7
3493	1818	NM_019369	a, uu	inter alpha-trypsin inhibitor, heavy chain 4, inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein)	EST, Weakly similar to JC5953 inter-alpha-inhibitor H4P heavy chain - rat [R.norvegicus], ESTs, Weakly similar to INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN H2 PRECURSOR [M.musculus], inter alpha-trypsin inhibitor, heavy chain 4, inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein)
3193	2554	NM_012967	vv	intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	ESTs, Weakly similar to ICA1_HUMAN INTERCELLULAR ADHESION MOLECULE-1 PRECURSOR [H.sapiens], intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor, intercellular adhesion molecule 3, intercellular adhesion molecule 5, telencephalin

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3193	2555	NM_012967	vv	intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	ESTs, Weakly similar to ICA1_HUMAN INTERCELLULAR ADHESION MOLECULE-1 PRECURSOR [H.sapiens], intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor, intercellular adhesion molecule 3, intercellular adhesion molecule 5, telencephalin
3082	20126	NM_012591	u, nn	interferon regulatory factor 1	ESTs, Moderately similar to sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae) [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to sirtuin silent mating type information regulation 2 homolog 7 (S. cerevisiae), clone MGC:37560 IMAGE:4987746, mRNA, complete cds, expressed sequence A1646973, interferon regulatory factor 1, interferon regulatory factor 2, interferon regulatory factor 4, interferon regulatory factor 5, sirtuin 1 ((silent mating type information regulation 2, homolog) 1 (S. cerevisiae), sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae), sirtuin 3 (silent mating type information regulation 2, homolog) 3 (S. cerevisiae)
3082	21162	NM_012591	d, u	interferon regulatory factor 1	expressed sequence A1646973, interferon regulatory factor 1, interferon regulatory factor 2, interferon regulatory factor 4, interferon regulatory factor 5
3460	17908	NM_019242	f, General, ee, pp	interferon-related developmental regulator 1	ESTs, Weakly similar to IFR1_RAT INTERFERON-RELATED DEVELOPMENTAL REGULATOR 1 (NERVE GROWTH FACTOR-INDUCIBLE PROTEIN PC4) (IRPR) [R.norvegicus], interferon-related developmental regulator 1, interferon-related developmental regulator 2
3799	24710	NM_031512	vv	interleukin 1 beta, interleukin 1, beta	
3218	115	NM_013037	u	interleukin 1 receptor-like 1	interleukin 1 receptor-like 1
3246	14300	NM_013129	pp	interleukin 15	interleukin 15
4175	656	NM_133380	x	interleukin 4 receptor, interleukin 4 receptor, alpha	colony stimulating factor 2 receptor, beta 1, low-affinity (granulocyte-macrophage), interleukin 4 receptor, interleukin 4 receptor, alpha
3296	6598	NM_017020	j, n, xx	interleukin 6 receptor, interleukin 6 receptor, alpha	interleukin 6 receptor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3797	17427	NM_031510	p	isocitrate dehydrogenase 1 (NADP+), soluble	ESTs, Highly similar to IDHC_RAT ISOCITRATE DEHYDROGENASE [NADP] CYTOPLASMIC (OXALOSUCCINATE DECARBOXYLASE) (IDH) (NADP+-SPECIFIC ICDH) (IDP) [R.norvegicus], expressed sequence AI788952, isocitrate dehydrogenase 1 (NADP+), soluble, isocitrate dehydrogenase 2 (NADP+), mitochondrial
4025	23305	NM_053638	jj	isocitrate dehydrogenase 3 (NAD+) alpha	isocitrate dehydrogenase 3 (NAD+) alpha
3083	4449	NM_012592	z, General	isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase	ESTs, Moderately similar to IVD_HUMAN ISOVALERYL-COA DEHYDROGENASE, MITOCHONDRIAL PRECURSOR [H.sapiens], isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase
3083	4450	NM_012592	p	isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase	ESTs, Moderately similar to IVD_HUMAN ISOVALERYL-COA DEHYDROGENASE, MITOCHONDRIAL PRECURSOR [H.sapiens], isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase
2869	25233	AJ000556	p, mm	Janus kinase 1, Janus kinase 1 (a protein tyrosine kinase)	
3800	12580	NM_031514	m, v	Janus kinase 2, Janus kinase 2 (a protein tyrosine kinase)	ESTs, Weakly similar to JC4127 protein-tyrosine kinase (EC 2.7.1.112) - rat [R.norvegicus], Janus kinase 1, Janus kinase 1 (a protein tyrosine kinase), Janus kinase 2, Janus kinase 2 (a protein tyrosine kinase), expressed sequence AI504024, expressed sequence C81284, tyrosine kinase 2
3451	2632	NM_019213	s	jumping translocation breakpoint	ESTs, Highly similar to jumping translocation breakpoint [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to jumping translocation breakpoint [Rattus norvegicus] [R.norvegicus], jumping translocation breakpoint
3535	20162	NM_021835	u, tt	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)
3535	22350	NM_021835	tt	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3535	22351	NM_021835	kk, tt	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)
3535	22352	NM_021835	y, kk, ss, tt	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)
3895	15864	NM_031797	x	kangai 1 (suppression of tumorigenicity 6, prostate), kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))	kangai 1 (suppression of tumorigenicity 6, prostate), kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)), tetraspan 1
3913	16726	NM_031855	General, dd	ketoheokinase, ketoheokinase (fructokinase)	ketoheokinase, ketoheokinase (fructokinase)
4021	659	NM_053622	q	KIAA0618 gene product, nuclear pore membrane protein 121	EST, Moderately similar to N121_HUMAN NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 KDA) (P145) [H.sapiens], EST, Weakly similar to N121_HUMAN NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 KDA) (P145) [H.sapiens], ESTs, Weakly similar to nuclear pore membrane glycoprotein 121 kD [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to DDX9 MOUSE ATP-DEPENDENT RNA HELICASE A [M.musculus], KIAA0410 gene product, KIAA0618 gene product, Mus musculus, clone IMAGE:4949762, mRNA, partial cds, Mus musculus, clone IMAGE:5148310, mRNA, Mus musculus, clone IMAGE:5321620, mRNA, partial cds, POM (POM121 rat homolog) and ZP3 fusion, Snf2-related-CBP activator protein, melanoma antigen, family D, 3
3116	1850	NM_012696	a	kininogen	kininogen
3116	1854	NM_012696	a	kininogen	kininogen
3991	14380	NM_053536	tt	Kruppel-like factor 15	
4128	8641	NM_057211	f	Kruppel-like factor 9, basic transcription element binding protein 1	ESTs, Moderately similar to Kruppel-like factor 9 [Rattus norvegicus] [R.norvegicus], Kruppel-like factor 9, basic transcription element binding protein 1, expressed sequence AL022736

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4080	794	NM_053902	I	kynureninase (L-kynurenine hydrolase)	Mus musculus, Similar to kynureninase (L-kynurenine hydrolase), clone MGC:30315 IMAGE:5136970, mRNA, complete cds, kynureninase (L-kynurenine hydrolase)
3332	24885	NM_017138	q, II	laminin receptor 1 (67kD, ribosomal protein SA)	EST, Weakly similar to 1405340A protein 40kD [M.musculus], EST, Weakly similar to RSP4 MOUSE 40S RIBOSOMAL PROTEIN SA [M.musculus], ESTs, Highly similar to A31233 ribosomal protein RS.40K, cytosolic [H.sapiens], ESTs, Moderately similar to laminin-binding protein [H.sapiens], expressed sequence AL022858, laminin receptor 1 (67kD, ribosomal protein SA)
3332	24886	NM_017138	I, II	laminin receptor 1 (67kD, ribosomal protein SA)	EST, Weakly similar to 1405340A protein 40kD [M.musculus], EST, Weakly similar to RSP4 MOUSE 40S RIBOSOMAL PROTEIN SA [M.musculus], ESTs, Highly similar to A31233 ribosomal protein RS.40K, cytosolic [H.sapiens], ESTs, Moderately similar to laminin-binding protein [H.sapiens], expressed sequence AL022858, laminin receptor 1 (67kD, ribosomal protein SA)
3728	301	NM_031049	jj	lanosterol synthase, lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)
3728	302	NM_031049	jj	lanosterol synthase, lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)
3728	303	NM_031049	k, jj	lanosterol synthase, lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)
3519	19059	NM_021587	a	latent transforming growth factor beta binding protein 1	EST, Weakly similar to transforming growth factor-beta (TGF-beta) masking protein large subunit [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to FIBRILLIN 2 PRECURSOR [M.musculus], ESTs, Weakly similar to transforming growth factor-beta (TGF-beta) masking protein large subunit [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 2310046A13 gene, fibulin 1, latent transforming growth factor beta binding protein 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3299	670	NM_017024	a, m, v, cc, uu, vv	lecithin cholesterol acyltransferase, lecithin-cholesterol acyltransferase	EST, Weakly similar to LCAT MOUSE PHOSPHATIDYLCHOLINE-STEROL ACYLTRANSFERASE PRECURSOR [M.musculus], EST, Weakly similar to LCAT_HUMAN PHOSPHATIDYLCHOLINE-STEROL ACYLTRANSFERASE PRECURSOR [H.sapiens], ESTs, Moderately similar to LCAT_HUMAN PHOSPHATIDYLCHOLINE-STEROL ACYLTRANSFERASE PRECURSOR [H.sapiens], expressed sequence C87498, lecithin cholesterol acyltransferase, lecithin-cholesterol acyltransferase, lysophospholipase 3, lysophospholipase 3 (lysosomal phospholipase A2)
3903	22321	NM_031832	f, j, General, ss	lectin, galactose binding, soluble 3, lectin, galactoside-binding, soluble, 3 (galectin 3)	EST, Weakly similar to A35820 galectin 3 [H.sapiens], galectin-related inter-fiber protein, lectin, galactoside-binding, soluble, 3 (galectin 3)
4075	14992	NM_053886	dd	lectin, mannose-binding, 1	ERGL protein; ERGIC-53-like protein, EST, Weakly similar to RIKEN cDNA 1300009F09 [Mus musculus] [M.musculus], ESTs, Weakly similar to RIKEN cDNA 1300009F09 [Mus musculus] [M.musculus], ESTs, Weakly similar to 2208374A cis-Golgi/intermediate compartment protein [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to ERGL protein; ERGIC-53-like protein, clone MGC:28923 IMAGE:4925160, mRNA, complete cds, RIKEN cDNA 1300009F09 gene, chromosome 5 open reading frame 8, lectin, mannose-binding, 1
3084	24735	NM_012596	pp	leptin receptor	leptin receptor
991	22283	AA945172	mm	leucine aminopeptidase 3	aminopeptidase-like 1, leucine aminopeptidase 3
4176	10195	NM_133383	w	likely homolog of rat and mouse retinoid-inducible serine carboxypeptidase, retinoid-inducible serine carboxypeptidase	

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3838	1683	NM_031621	e, ww	linker of T-cell receptor pathways, lymphocyte adaptor protein	ESTs, Weakly similar to linker of T-cell receptor pathways [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to ShcC [M.musculus], linker of T-cell receptor pathways, lymphocyte adaptor protein, src homology 2 domain-containing transforming protein C1, src homology 2 domain-containing transforming protein D
3125	16613	NM_012732	c	lipase A, lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1	ESTs, Weakly similar to cholesterol esterase (pancreatic), see D3Wox12, D3Wox13, D3Wox26 and D3Mgh25 [Rattus norvegicus] [R.norvegicus], lipase A, lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1
3125	10260	NM_012732	y	lipase A, lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1	ESTs, Weakly similar to cholesterol esterase (pancreatic), see D3Wox12, D3Wox13, D3Wox26 and D3Mgh25 [Rattus norvegicus] [R.norvegicus], lipase A, lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1
3085	2505	NM_012597	w	lipase, hepatic	ESTs, Weakly similar to S15893 triacylglycerol lipase [M.musculus], lipase, hepatic
3553	10509	NM_022268	p, General	liver glycogen phosphorylase, phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)	liver glycogen phosphorylase, muscle glycogen phosphorylase, phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)
3553	25814	NM_022268	l	liver glycogen phosphorylase, phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)	liver glycogen phosphorylase, muscle glycogen phosphorylase, phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)
3357	1541	NM_017193	ee	L-kynurenine/alpha-aminoadipate aminotransferase, kynurenine aminotransferase II	
3161	18767	NM_012857	qq	lysosomal membrane glycoprotein 1, lysosomal-associated membrane protein 1	CD68 antigen, ESTs, Weakly similar to LMP1_RAT LYSOSOME-ASSOCIATED MEMBRANE GLYCOPROTEIN 1 PRECURSOR (LAMP-1) (120 KD LYSOSOMAL MEMBRANE GLYCOPROTEIN) (LGP-120) (CD107A) [R.norvegicus], chromosome 20 open reading frame 103, lysosomal membrane glycoprotein 1, lysosomal-associated membrane protein 1, lysosomal-associated membrane protein 3

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3161	18770	NM_012857	m, ff, ii, rr	lysosomal membrane glycoprotein 1, lysosomal-associated membrane protein 1	CD68 antigen, ESTs, Weakly similar to LMP1_RAT LYSOSOME-ASSOCIATED MEMBRANE GLYCOPROTEIN 1 PRECURSOR (LAMP-1) (120 KD LYSOSOMAL MEMBRANE GLYCOPROTEIN) (LGP-120) (CD107A) [R.norvegicus], chromosome 20 open reading frame 103, lysosomal membrane glycoprotein 1, lysosomal-associated membrane protein 1, lysosomal-associated membrane protein 3
2961	790	L10073	g	lysosomal membrane glycoprotein 1, lysosomal-associated membrane protein 1	
3309	6653	NM_017068	tt	lysosomal membrane glycoprotein 2, lysosomal-associated membrane protein 2	CD68 antigen, ESTs, Weakly similar to JC4317 lysosome-associated membrane protein 2 precursor, splice form B [H.sapiens], lysosomal membrane glycoprotein 2, lysosomal-associated membrane protein 2
663	12118	AA892775	I, General, gg, hh, kk	lysozyme, lysozyme (renal amyloidosis)	EST, Weakly similar to LYC1_RAT Lysozyme C, type 1 precursor (1,4-beta-N-acetylmuramidase C) [R.norvegicus], RIKEN cDNA 9530003J23 gene, lysozyme, lysozyme (renal amyloidosis), similar to lysozyme C-1 (1,4-beta-N-acetylmuramidase C, EC 3.2.1.17)
3308	1942	NM_017061	a	lysyl oxidase	ESTs, Moderately similar to LYOX_HUMAN PROTEIN-LYSINE 6-OXIDASE PRECURSOR [H.sapiens], ESTs, Moderately similar to LYOX_RAT Protein-lysine 6-oxidase precursor (Lysyl oxidase) [R.norvegicus], ESTs, Weakly similar to LYOX_RAT Protein-lysine 6-oxidase precursor (Lysyl oxidase) [R.norvegicus], lysyl oxidase, lysyl oxidase-like, lysyl oxidase-like 1, lysyl oxidase-like 2

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3308	1946	NM_017061	ss	lysyl oxidase	ESTs, Moderately similar to LYOX_HUMAN PROTEIN-LYSINE 6-OXIDASE PRECURSOR [H.sapiens], ESTs, Moderately similar to LYOX_RAT Protein-lysine 6-oxidase precursor (Lysyl oxidase) [R.norvegicus], ESTs, Weakly similar to LYOX_RAT Protein-lysine 6-oxidase precursor (Lysyl oxidase) [R.norvegicus], lysyl oxidase, lysyl oxidase-like, lysyl oxidase-like 1, lysyl oxidase-like 2
3446	15242	NM_019191	f, General, jj	MAD homolog 2 (Drosophila), MAD, mothers against decapentaplegic homolog 2 (Drosophila)	MAD homolog 2 (Drosophila), MAD, mothers against decapentaplegic homolog 2 (Drosophila)
4427	12859	X53052	s, v	major intrinsic protein of eye lens fiber, major intrinsic protein of lens fiber	
1304	17353	AI008020	o	malic enzyme 1, NADP(+)-dependent, cytosolic, malic enzyme, supernatant	
3087	18746	NM_012600	gg, hh	malic enzyme 1, NADP(+)-dependent, cytosolic, malic enzyme, supernatant	
3004	6626	M24353	l, k, General, ll	mannosidase 2, alpha 1, mannosidase, alpha, class 2A, member 1	EST, Weakly similar to MAN2_HUMAN ALPHA-MANNOSIDASE II [H.sapiens], KIAA0935 protein, mannosidase 2, alpha 1, mannosidase 2, alpha B1, mannosidase 2, alpha B2, mannosidase, alpha, class 2A, member 2, mannosidase, alpha, class 2B, member 1
3442	269	NM_019180	d	mast cell protease 6, tryptase, alpha	EST, Moderately similar to C35863 tryptase [H.sapiens], EST, Weakly similar to JC4171 tryptase (EC 3.4.21.59) precursor - rat [R.norvegicus], ESTs, Weakly similar to MCT6 MOUSE MAST CELL PROTEASE 6 PRECURSOR [M.musculus], Mus musculus mRNA for testis serine protease2, complete cds, implantation serine protease 1, mast cell protease 6, tryptase beta 1
3198	1525	NM_012980	v	matrix metalloproteinase 11, matrix metalloproteinase 11 (stromelysin 3)	ESTs, Weakly similar to JC6197 stromelysin 3 (EC 3.4.24.-) - rat [R.norvegicus], matrix metalloproteinase 11, matrix metalloproteinase 11 (stromelysin 3), matrix metalloproteinase-like 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3162	395	NM_012864	v	matrix metalloproteinase 7, matrix metalloproteinase 7 (matrilysin, uterine)	
4363	16675	U17565	ww	MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae), mini chromosome maintenance deficient 6 (S. cerevisiae)	EST, Weakly similar to MCM5_HUMAN DNA REPLICATION LICENSING FACTOR MCM5 [H.sapiens], ESTs, Weakly similar to MCM6_HUMAN DNA REPLICATION LICENSING FACTOR MCM6 [H.sapiens], MCM2 minichromosome maintenance deficient 2, mitotin (S. cerevisiae), MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae), mini chromosome maintenance deficient 2 (S. cerevisiae), mini chromosome maintenance deficient 5 (S. cerevisiae), mini chromosome maintenance deficient 6 (S. cerevisiae), mini chromosome maintenance deficient 7 (S. cerevisiae)
549	19321	AA891666	t	melanoma antigen, family D, 1	RIKEN cDNA 1700056A17 gene, RIKEN cDNA 1700080O16 gene, RIKEN cDNA 2410003J06 gene, RIKEN cDNA 3830417A13 gene, melanoma antigen, family D, 1, melanoma antigen, family L, 2
3936	17933	NM_032615	m, o, z, General, dd, rr	membrane interacting protein of RGS16	
3936	17934	NM_032615	o, z, General, nn	membrane interacting protein of RGS16	
3936	17935	NM_032615	o, s	membrane interacting protein of RGS16	
3089	16850	NM_012608	k	membrane metallo endopeptidase, membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)	ESTs, Highly similar to NEP_HUMAN NEPRILYSIN [H.sapiens], Mus musculus endothelin converting enzyme-2 mRNA, complete cds, membrane metallo endopeptidase, membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)
3251	5837	NM_013143	s	meprin 1 alpha, meprin A, alpha (PABA peptide hydrolase)	expressed sequence A1098089, meprin 1 alpha, meprin A, alpha (PABA peptide hydrolase)
4245	16354	NM_138843	v, xx	mercaptopyruvate sulfurtransferase	ESTs, Moderately similar to THTM_RAT 3-MERCAPTOPYRUVATE SULFURTRANSFERASE (MST) [R.norvegicus], mercaptopyruvate sulfurtransferase, thiosulfate sulfurtransferase, mitochondrial

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4239	15189	NM_138826	q, w	metallothionein 1, metallothionein 1A (functional)	EST, Moderately similar to Cd-7 Metallothionein-2 [H.sapiens], EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens], ESTs, Moderately similar to MT1_RAT METALLOTHIONEIN-I (MT-I) [R.norvegicus], metallothionein 1, metallothionein 4, metallothionein IV
4239	15190	NM_138826	n, w, ii	metallothionein 1, metallothionein 1A (functional)	EST, Moderately similar to Cd-7 Metallothionein-2 [H.sapiens], EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens], ESTs, Moderately similar to MT1_RAT METALLOTHIONEIN-I (MT-I) [R.norvegicus], metallothionein 1, metallothionein 4, metallothionein IV
234	576	AA819118	vv	methionine adenosyltransferase I, alpha	Mus musculus, clone MGC:6545 IMAGE:2655444, mRNA, complete cds, expressed sequence A1046368, methionine adenosyltransferase I, alpha
4421	575	X15734	a, l	methionine adenosyltransferase I, alpha	Mus musculus, clone MGC:6545 IMAGE:2655444, mRNA, complete cds, expressed sequence A1046368, methionine adenosyltransferase I, alpha
3593	8984	NM_022539	ww	methionine aminopeptidase 2, methionyl aminopeptidase 2	ESTs, Moderately similar to AMP2 MOUSE METHIONINE AMINOPEPTIDASE 2 [M.musculus], methionine aminopeptidase 2, methionyl aminopeptidase 2
3734	400	NM_031062	jj, ww	mevalonate (diphospho) decarboxylase	diphosphomevalonate decarboxylase, mevalonate (diphospho) decarboxylase
3735	21701	NM_031063	jj	mevalonate kinase, mevalonate kinase (mevalonic aciduria)	mevalonate kinase, mevalonate kinase (mevalonic aciduria)
3364	13938	NM_017212	g	microtubule-associated protein tau	
3590	5666	NM_022529	r	mitochondrial ribosomal protein L23	
4164	17564	NM_133283	ff	mitogen activated protein kinase kinase 2, mitogen-activated protein kinase kinase 2	
4164	21848	NM_133283	v, y	mitogen activated protein kinase kinase 2, mitogen-activated protein kinase kinase 2	



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4164	21849	NM_133283	ff	mitogen activated protein kinase kinase 2, mitogen-activated protein kinase kinase 2	
3378	1418	NM_017246	u, cc	mitogen activated protein kinase kinase 5, mitogen-activated protein kinase kinase 5	mitogen activated protein kinase kinase 5, mitogen-activated protein kinase kinase 5
3224	12370	NM_013055	u	mitogen activated protein kinase kinase kinase 12, mitogen-activated protein kinase kinase kinase 12	ESTs, Highly similar to A55318 serine/threonine protein kinase [M.musculus], Mus musculus, Similar to mitogen-activated protein kinase kinase 9, clone MGC:27778 IMAGE:3156324, mRNA, complete cds, RIKEN cDNA 9130019115 gene, expressed sequence C81508, mitogen activated protein kinase kinase kinase 11, mitogen activated protein kinase kinase kinase 12, mitogen-activated protein kinase kinase 10, mitogen-activated protein kinase kinase kinase 11, mitogen-activated protein kinase kinase kinase 12, mitogen-activated protein kinase kinase kinase 13, mitogen-activated protein kinase kinase kinase 7
3839	14956	NM_031622	l	mitogen-activated protein kinase 6	ESTs, Weakly similar to B40033 protein kinase (EC 2.7.1.37) ERK3 - rat [R.norvegicus], mitogen-activated protein kinase 4, mitogen-activated protein kinase 6
872	16499	AA925300	d	mitogen-activated protein kinase kinase kinase 3	ESTs, Highly similar to M3K3 MOUSE MITOGEN-ACTIVATED PROTEIN KINASE KINASE 3 [M.musculus], ESTs, Moderately similar to S12207 hypothetical protein [M.musculus], ESTs, Weakly similar to M3K3_HUMAN MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 3 [H.sapiens], hypothetical protein FLJ23074, mitogen activated protein kinase kinase 1, mitogen activated protein kinase kinase kinase 2, mitogen activated protein kinase kinase kinase 3, mitogen-activated protein kinase kinase kinase 2, mitogen-activated protein kinase kinase kinase 3
3626	58	NM_022715	nn	Mitral valve prolapse, familial, major vault protein	
2879	18456	D00688	bb	monoamine oxidase A	KIAA0601 protein, monoamine oxidase A

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4226	12215	NM_138502	o	monoglyceride lipase	Homo sapiens cDNA: FLJ22330 fis, clone HRC05729, highly similar to AF131821 Homo sapiens clone 24877 mRNA sequence, monoglyceride lipase
3962	14934	NM_053337	m, x, ll, ww	Msx-interacting-zinc finger, Protein inhibitor of activated STAT X	DNA segment, Chr 11, Brigham & Women's Genetics 0280e expressed, Msx-interacting-zinc finger, Protein inhibitor of activated STAT X
1258	15292	AF012714	ff	multiple inositol polyphosphate histidine phosphatase 1, multiple inositol polyphosphate histidine phosphatase, 1	
1968	15291	AI111401	t, ff, mm	multiple inositol polyphosphate histidine phosphatase 1, multiple inositol polyphosphate histidine phosphatase, 1	
3088	2628	NM_012603	f, l, y, z, General	myelocytomatosis oncogene, v-myc myelocytomatosis viral oncogene homolog (avian)	myelocytomatosis oncogene, v-myc myelocytomatosis viral oncogene homolog (avian)
3088	2629	NM_012603	f, l, i, z, General, nn	myelocytomatosis oncogene, v-myc myelocytomatosis viral oncogene homolog (avian)	myelocytomatosis oncogene, v-myc myelocytomatosis viral oncogene homolog (avian)
3375	1498	NM_017239	v	myosin heavy chain, cardiac muscle, adult, myosin, heavy polypeptide 6, cardiac muscle, alpha (cardiomyopathy, hypertrophic 1)	EST, Weakly similar to MYH6_RAT Myosin heavy chain, cardiac muscle alpha isoform (MyHC-alpha) [R.norvegicus], ESTs, Moderately similar to MYOSIN HEAVY CHAIN, CARDIAC MUSCLE ALPHA ISOFORM [M.musculus], ESTs, Weakly similar to MYSA_HUMAN MYOSIN HEAVY CHAIN, CARDIAC MUSCLE ALPHA ISOFORM [H.sapiens], KIAA1000 protein, myosin heavy chain, cardiac muscle, adult, myosin, heavy polypeptide 2, skeletal muscle, adult, myosin, heavy polypeptide 4, skeletal muscle, myosin, heavy polypeptide 7, cardiac muscle, beta
2455	21296	AI227641	j	myosin light chain, phosphorylatable, cardiac ventricles, myosin, light polypeptide 2, regulatory, cardiac, slow	

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1626	24336	AI045621	r	myristoylated alanine rich protein kinase C substrate, myristoylated alanine-rich protein kinase C substrate	Mus musculus 8 days embryo whole body cDNA, RIKEN full-length enriched library, clone:5730519L10:myristoylated alanine rich protein kinase C substrate, full insert sequence; myristoylated alanine rich protein kinase C substrate, myristoylated alanine-rich protein kinase C substrate
3050	1421	NM_012500	f	N-acylaminoacyl-peptide hydrolase, acylpeptide hydrolase	Mus musculus, clone IMAGE:4974221, mRNA, partial cds; N-acylaminoacyl-peptide hydrolase
3289	1698	NM_017000	e	NAD(P)H dehydrogenase, quinone 1	ESTs, Weakly similar to A34162 NAD(P)H dehydrogenase (quinone) (EC 1.6.99.2) - rat [R.norvegicus], NAD(P)H dehydrogenase, quinone 1, NAD(P)H dehydrogenase, quinone 2, NAD(P)H menadione oxidoreductase 2, dioxin inducible
3454	20938	NM_019223	t	NADH dehydrogenase (ubiquinone) Fe-S protein 6 (13kD) (NADH-coenzyme Q reductase), NADH dehydrogenase Fe-S protein 6	ESTs, Highly similar to NUMM MOUSE NADH-UBIQUINONE OXIDOREDUCTASE 13 KD-A SUBUNIT [M.musculus], NADH dehydrogenase (ubiquinone) Fe-S protein 6 (13kD) (NADH-coenzyme Q reductase)
29	16901	AA799479	r	NADH dehydrogenase (ubiquinone) Fe-S protein 8 (23kD) (NADH-coenzyme Q reductase)	NADH dehydrogenase (ubiquinone) Fe-S protein 8 (23kD) (NADH-coenzyme Q reductase)
3090	9174	NM_012612	g	natriuretic peptide precursor A, natriuretic peptide precursor type A	
3809	18389	NM_031545	gg, hh	natriuretic peptide precursor B, natriuretic peptide precursor type B	EST, Moderately similar to ANFB MOUSE BRAIN NATRIURETIC PEPTIDE PRECURSOR [M.musculus], natriuretic peptide precursor B, natriuretic peptide precursor type B
3200	24492	NM_012987	jj	nestin	ESTs, Highly similar to S21424 nestin [H.sapiens], nestin
4134	16108	NM_080585	d, q, gg, hh	N-ethylmaleimide sensitive fusion protein attachment protein alpha, N-ethylmaleimide-sensitive factor attachment protein, alpha	N-ethylmaleimide sensitive fusion protein attachment protein alpha, N-ethylmaleimide sensitive fusion protein attachment protein beta, N-ethylmaleimide sensitive fusion protein attachment protein gamma, N-ethylmaleimide-sensitive factor attachment protein, alpha, N-ethylmaleimide-sensitive factor attachment protein gamma

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4134	16109	NM_080585	e, q	N-ethylmaleimide sensitive fusion protein attachment protein alpha, N-ethylmaleimide-sensitive factor attachment protein, alpha	N-ethylmaleimide sensitive fusion protein attachment protein alpha, N-ethylmaleimide sensitive fusion protein attachment protein beta, N-ethylmaleimide sensitive fusion protein attachment protein gamma, N-ethylmaleimide-sensitive factor attachment protein, alpha, N-ethylmaleimide-sensitive factor attachment protein, gamma
3801	1783	NM_031521	oo	neural cell adhesion molecule 1	ESTs, Weakly similar to I38344 titin, cardiac muscle [H.sapiens], RIKEN cDNA 2900042E01 gene, neural cell adhesion molecule 1, neural cell adhesion molecule 2
4381	11916	U50842	qq	neural precursor cell expressed, developmentally down-regulated 4, neural precursor cell expressed, developmentally down-regulated gene 4a	
4250	9896	NM_138878	p	neural precursor cell expressed, developmentally down-regulated 8, neural precursor cell expressed, developmentally down-regulated gene 8	EST, Highly similar to S66575 ubiquitin / ribosomal protein CEP52 - rat (fragment) [R.norvegicus], ESTs, Moderately similar to ubiquitin A-52 residue ribosomal protein fusion product 1; ubiquitin/60S ribosomal fusion protein [Mus musculus] [M.musculus], neural precursor cell expressed, developmentally down-regulated 8, neural precursor cell expressed, developmentally down-regulated gene 8, ubiquitin A-52 residue ribosomal protein fusion product 1
3833	19023	NM_031609	cc	neuroblastoma, suppression of tumorigenicity 1	dante, neuroblastoma, suppression of tumorigenicity 1
3091	24506	NM_012614	d, v	neuropeptide Y	RIKEN cDNA 0710005A05 gene, neuropeptide Y
3463	24849	NM_019248	e, u	neurotrophic tyrosine kinase, receptor, type 3	neurotrophic tyrosine kinase, receptor, type 3
2767	14666	AI236912	z	NGFI-A binding protein 1 (EGR1 binding protein 1), Ngfi-A binding protein 1	EST, Weakly similar to Ngfi-A binding protein 1 [Rattus norvegicus] [R.norvegicus], NGFI-A binding protein 1 (EGR1 binding protein 1), NGFI-A binding protein 2 (EGR1 binding protein 2), Ngfi-A binding protein 1, Ngfi-A binding protein 2
4390	1715	U72660	o, mm	ninjurin 1	ninjurin 1, ninjurin 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3387	570	NM_017271	a, l, v, General, dd, oo	nuclear distribution gene C homolog (A. nidulans), nuclear distribution gene C homolog (Aspergillus)	ESTs, Moderately similar to A55897 prolactin-induced T cell protein c15 - rat [R.norvegicus], KIAA1068 protein, Mus musculus, Similar to KIAA1068 protein, clone IMAGE:4236345, mRNA, partial cds, expressed sequence AL022907, nuclear distribution gene C homolog (A. nidulans), nuclear distribution gene C homolog (Aspergillus)
3201	764	NM_012988	c, p, r, z, General	nuclear factor I/A	nuclear factor I/A, nuclear factor I/B, nuclear factor I/C, nuclear factor I/X, nuclear factor I/X (CCAAT-binding transcription factor)
3201	765	NM_012988	h, q, z, General	nuclear factor I/A	nuclear factor I/A, nuclear factor I/B, nuclear factor I/C, nuclear factor I/X, nuclear factor I/X (CCAAT-binding transcription factor)
1249	17963	AB012231	h	nuclear factor I/B	Nuclear Factor IA, nuclear factor I/A, nuclear factor I/B, nuclear factor I/C, nuclear factor I/X, nuclear factor I/X (CCAAT-binding transcription factor)
1250	24414	AB012234	ii	nuclear factor I/X, nuclear factor I/X (CCAAT-binding transcription factor)	Nuclear Factor IA, nuclear factor I/A, nuclear factor I/B, nuclear factor I/C, nuclear factor I/X, nuclear factor I/X (CCAAT-binding transcription factor)
4453	25090	X63594	ii	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	
3841	1639	NM_031627	c, x, General, ss	nuclear receptor subfamily 1, group H, member 3	EST, Moderately similar to NRH3_RAT Oxysterols receptor LXR-alpha (Liver X receptor alpha) (Nuclear orphan receptor LXR-alpha) (RLD-1) [R.norvegicus], EST, Weakly similar to I38975 nuclear orphan receptor LXR-alpha [H.sapiens], expressed sequence AU018371, nuclear receptor subfamily 1, group H, member 3
3529	19712	NM_021745	t, General, ff, kk, oo	nuclear receptor subfamily 1, group H, member 4	EST, Weakly similar to I38975 nuclear orphan receptor LXR-alpha [H.sapiens], ESTs, Moderately similar to JC4014 steroid hormone-nuclear receptor NER [H.sapiens], expressed sequence A1957360, nuclear receptor subfamily 1, group H, member 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3876	1214	NM_031741	z, jj	nuclear receptor subfamily 1, group H, member 4, solute carrier family 2 (facilitated glucose transporter), member 5, solute carrier family 2 (facilitated glucose/fructose transporter), member 5, synaptojanin 2 binding protein	solute carrier family 2 (facilitated glucose transporter), member 5, solute carrier family 2 (facilitated glucose/fructose transporter), member 5
3527	19709	NM_021742	d	nuclear receptor subfamily 5, group A, member 2	nuclear receptor subfamily 5, group A, member 2, nuclear receptor subfamily 6, group A, member 1
1287	18731	AF093139	ww	nuclear RNA export factor 1, nuclear RNA export factor 1 homolog ( <i>S. cerevisiae</i> )	
488	4339	AA875121	d	nuclear transcription factor Y, gamma, nuclear transcription factor-Y gamma	
3163	4338	NM_012866	ll	nuclear transcription factor Y, gamma, nuclear transcription factor-Y gamma	
3815	16164	NM_031563	h, m, n, General	nuclease sensitive element binding protein 1	ESTs, Highly similar to I39382 Y box-binding protein 1 - human [ <i>H.sapiens</i> ], ESTs, Moderately similar to PS0015 DNA-binding protein B [ <i>H.sapiens</i> ], RIKEN cDNA 1700102N10 gene, Y box protein 2, nuclease sensitive element binding protein 1
3203	17393	NM_012992	b, l, j, General, qq	nucleophosmin (nucleolar phosphoprotein B23, numatrin), nucleophosmin 1	ESTs, Highly similar to A32915 nucleophosmin [ <i>H.sapiens</i> ], nucleophosmin 1
3203	17394	NM_012992	General	nucleophosmin (nucleolar phosphoprotein B23, numatrin), nucleophosmin 1	ESTs, Highly similar to A32915 nucleophosmin [ <i>H.sapiens</i> ], nucleophosmin 1
3202	16417	NM_012991	l, x, General, vv	nucleoporin 50kD, nucleoprotein 50	nucleoporin 50kD, nucleoprotein 50
3738	1855	NM_031074	d	nucleoporin 98, nucleoporin 98kD	ESTs, Weakly similar to period clock protein [ <i>M.musculus</i> ], RIKEN cDNA 4930432K09 gene, RIKEN cDNA 5430432N15 gene, expressed sequence AA589586, homeo box D13, melanoma antigen, family D, 3, nucleoporin 98kD, nucleoporin p45, nucleoporin p58, plasma membrane associated protein S3-12

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1278	16006	AF062594	m, ii	nucleosome assembly protein 1-like 1	ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], SET translocation, SET translocation (myeloid leukemia-associated), nucleosome assembly protein 1-like 1
1410	16010	AI011922	e	nucleosome assembly protein 1-like 1	ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], SET translocation, SET translocation (myeloid leukemia-associated), nucleosome assembly protein 1-like 1
2943	24513	J02705	v	oncomodulin	oncomodulin
3232	13282	NM_013078	n, jj	ornithine carbamoyltransferase, ornithine transcarbamylase	ornithine carbamoyltransferase, ornithine transcarbamylase
3232	13283	NM_013078	h, l, m, s, General, cc, uu	ornithine carbamoyltransferase, ornithine transcarbamylase	ornithine carbamoyltransferase, ornithine transcarbamylase
3092	23522	NM_012615	c, g, l, m, n, w, General, kk	ornithine decarboxylase 1, ornithine decarboxylase, structural	ESTs, Highly similar to DCOR MOUSE ORNITHINE DECARBOXYLASE [M.musculus], ESTs, Weakly similar to DCOR MOUSE ORNITHINE DECARBOXYLASE [M.musculus], ESTs, Weakly similar to DCOR_HUMAN ORNITHINE DECARBOXYLASE [H.sapiens], ornithine decarboxylase 1, ornithine decarboxylase, structural, ornithine decarboxylase-like protein
3092	23523	NM_012615	l, v	ornithine decarboxylase 1, ornithine decarboxylase, structural	ESTs, Highly similar to DCOR MOUSE ORNITHINE DECARBOXYLASE [M.musculus], ESTs, Weakly similar to DCOR MOUSE ORNITHINE DECARBOXYLASE [M.musculus], ESTs, Weakly similar to DCOR_HUMAN ORNITHINE DECARBOXYLASE [H.sapiens], ornithine decarboxylase 1, ornithine decarboxylase, structural, ornithine decarboxylase-like protein
3596	21062	NM_022585	c, kk, tt, ww	ornithine decarboxylase antizyme inhibitor	ESTs, Weakly similar to ODCI_MOUSE Ornithine decarboxylase antizyme inhibitor [M.musculus], ornithine decarboxylase antizyme inhibitor
3596	21063	NM_022585	ff	ornithine decarboxylase antizyme inhibitor	ESTs, Weakly similar to ODCI_MOUSE Ornithine decarboxylase antizyme inhibitor [M.musculus], ornithine decarboxylase antizyme inhibitor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4264	15134	NM_139081	c	ornithine decarboxylase antizyme, ornithine decarboxylase antizyme 1	
4264	25250	NM_139081	c, t	ornithine decarboxylase antizyme, ornithine decarboxylase antizyme 1	
4264	25251	NM_139081	c, m	ornithine decarboxylase antizyme, ornithine decarboxylase antizyme 1	
3951	412	NM_053288	y	orosomucoid 1	orosomucoid 1, orosomucoid 2, orosomucoid 3
2949	20549	K01701	y	oxytocin, oxytocin, prepro- (neurophysin I)	ESTs, Moderately similar to NEU1 MOUSE OXYTOCIN-NEUROPHYSIN 1 PRECURSOR [M.musculus], oxytocin, oxytocin, prepro- (neurophysin I)
3818	1920	NM_031576	c, cc	P450 (cytochrome) oxidoreductase	
3491	18819	NM_019367	gg, hh, ii	palmitoyl-protein thioesterase 2	palmitoyl-protein thioesterase 2
3575	5319	NM_022502	r, u, z	palmitoyl-protein thioesterase, palmitoyl-protein thioesterase 1 (ceroid-lipofuscinosis, neuronal 1, infantile)	DNA segment, Chr 4, ERATO Doi 184, expressed, ESTs, Moderately similar to PPT MOUSE PALMITOYL-PROTEIN THIOESTERASE PRECURSOR [M.musculus], ESTs, Weakly similar to A54717 palmitoyl-protein thioesterase precursor - rat [R.norvegicus], ESTs, Weakly similar to PPT MOUSE PALMITOYL-PROTEIN THIOESTERASE PRECURSOR [M.musculus]; Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone:5830469K14:palmitoyl-protein thioesterase, full insert sequence, RIKEN cDNA 9530002B09 gene, palmitoyl-protein thioesterase, palmitoyl-protein thioesterase 1 (ceroid-lipofuscinosis, neuronal 1, infantile)
3775	16157	NM_031235	oo	par-3 (partitioning defective 3) homolog (C. elegans), par-3 partitioning defective 3 homolog (C. elegans)	RIKEN cDNA 2810455B10 gene, RIKEN cDNA 4930448K12 gene, amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19, par-3 (partitioning defective 3) homolog (C. elegans)
3572	9183	NM_022499	s, nn	parvalbumin	parvalbumin
3368	18147	NM_017226	cc	peptidyl arginine deiminase, type II.	ESTs, Highly similar to PROTEIN-ARGININE DEIMINASE [M.musculus], peptidyl arginine deiminase, type II



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3206	1640	NM_013000	pp	peptidylglycine alpha-amidating monooxygenase	ESTs, Weakly similar to AMD MOUSE PEPTIDYL-GLYCINE ALPHA-AMIDATING MONOOXYGENASE PRECURSOR [M.musculus], peptidylglycine alpha-amidating monooxygenase
3206	1649	NM_013000	n	peptidylglycine alpha-amidating monooxygenase	ESTs, Weakly similar to AMD MOUSE PEPTIDYL-GLYCINE ALPHA-AMIDATING MONOOXYGENASE PRECURSOR [M.musculus], peptidylglycine alpha-amidating monooxygenase
3321	4392	NM_017101	mm	peptidylprolyl isomerase A, peptidylprolyl isomerase A (cyclophilin A)	EST, Moderately similar to A Chain A, Cyclophilin A [H.sapiens], ESTs, Highly similar to CYPH MOUSE PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A [M.musculus], ESTs, Moderately similar to A Chain A, Human Cyclophilin A Complexed With 2-Thr Cyclosporin [H.sapiens], ESTs, Weakly similar to A Chain A, Cyclophilin A [H.sapiens], ESTs, Weakly similar to A Chain A, Human Cyclophilin A Complexed With 2-Thr Cyclosporin [H.sapiens], ESTs, Weakly similar to CYPH_RAT Peptidyl-prolyl cis-trans isomerase A (PPIase) (Rotamase) (Cyclophilin A) (Cyclosporin A-binding protein) (P31) [R.norvegicus], RIKEN cDNA 2510026K04 gene, expressed sequence A1256741, expressed sequence AW457192, peptidylprolyl isomerase A

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3321	4393	NM_017101	bb, mm	peptidylprolyl isomerase A, peptidylprolyl isomerase A (cyclophilin A)	EST, Moderately similar to A Chain A, Cyclophilin A [H.sapiens], ESTs, Highly similar to CYPH MOUSE PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A [M.musculus], ESTs, Moderately similar to A Chain A, Human Cyclophilin A Complexed With 2-Thr Cyclosporin [H.sapiens], ESTs, Weakly similar to A Chain A, Cyclophilin A [H.sapiens], ESTs, Weakly similar to A Chain A, Human Cyclophilin A Complexed With 2-Thr Cyclosporin [H.sapiens], ESTs, Weakly similar to CYPH_RAT Peptidyl-prolyl cis-trans isomerase A (PPIase) (Rotamase) (Cyclophilin A) (Cyclosporin A-binding protein) (P31) [R.norvegicus], RIKEN cDNA 2510026K04 gene, expressed sequence AI256741, expressed sequence AW457192, peptidylprolyl isomerase A
3301	4500	NM_017037	m, General, ii, qq, uu, vv	peripheral myelin protein 22, peripheral myelin protein, 22 kDa	peripheral myelin protein 22, peripheral myelin protein, 22 kDa
1252	22567	AB017544	u, kk	peroxisomal biogenesis factor 14	peroxisomal biogenesis factor 14
3822	405	NM_031587	f, k, w, cc	peroxisomal membrane protein 2 (22kD), peroxisomal membrane protein 2, 22 kDa	ESTs, Weakly similar to MPV1 MOUSE MPV17 PROTEIN [M.musculus], MpV17 transgene, murine homolog, glomerulosclerosis, Mpv17 transgene, kidney disease mutant, peroxisomal membrane protein 2, 22 kDa
4168	8436	NM_133299	b, General, vv	peroxisomal trans 2-enoyl CoA reductase; putative short chain alcohol dehydrogenase, peroxisomal trans-2-enoyl-CoA reductase	2,4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, 2,4-dienoyl-Coenzyme A reductase 2, peroxisomal, peroxisomal trans-2-enoyl-CoA reductase, putative peroxisomal 2,4-dienoyl-CoA reductase
1681	8330	AI059434	g	peroxisome proliferative activated receptor, gamma, coactivator 1	
3093	6055	NM_012619	b, l, General, uu	phenylalanine hydroxylase	ESTs, Highly similar to WHHUF phenylalanine 4-monooxygenase [H.sapiens], phenylalanine hydroxylase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3832	11296	NM_031606	b, m, General, oo, ww, xx	phosphatase and tensin homolog, phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	ESTs, Weakly similar to PTEN MOUSE PROTEIN-TYROSINE PHOSPHATASE PTEN [M.musculus], Mus musculus mRNA for tyrosine phosphatase (Tpte gene), isoform A, splice variant A, phosphatase and tensin homolog, phosphatase and tensin homolog (mutated in multiple advanced cancers 1), phosphatase and tensin homolog (mutated in multiple advanced cancers 1) pseudogene 1
3832	11297	NM_031606	ss	phosphatase and tensin homolog, phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	ESTs, Weakly similar to PTEN MOUSE PROTEIN-TYROSINE PHOSPHATASE PTEN [M.musculus], Mus musculus mRNA for tyrosine phosphatase (Tpte gene), isoform A, splice variant A, phosphatase and tensin homolog, phosphatase and tensin homolog (mutated in multiple advanced cancers 1), phosphatase and tensin homolog (mutated in multiple advanced cancers 1) pseudogene 1
3404	23130	NM_017307	j, z, General	phosphate cytidyltransferase 1, choline, alpha isoform	ESTs, Weakly similar to PM34_MOUSE PEROXISOMAL MEMBRANE PROTEIN PMP34 (34 KDA PEROXISOMAL MEMBRANE PROTEIN) (SOLUTE CARRIER FAMILY 25, MEMBER 17) [M.musculus], ESTs, Weakly similar to TXTP_HUMAN TRICARBOXYLATE TRANSPORT PROTEIN PRECURSOR [H.sapiens], ESTs, Weakly similar to TXTP_RAT Tricarboxylate transport protein, mitochondrial precursor (Citrate transport protein) (CTP) (Tricarboxylate carrier protein) [R.norvegicus], Mus musculus, Similar to hypothetical protein FLJ20551, clone MGC:18873 IMAGE:4235245, mRNA, complete cds, RIKEN cDNA 1300019P08 gene, expressed sequence AI194714, expressed sequence AW108044, ornithine transporter 2, solute carrier family 25 (mitochondrial carrier), member 18, solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21, uncoupling protein 2, mitochondrial

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3373	15598	NM_017236	rr	phosphatidylethanolamine binding protein, prostatic binding protein	Homo sapiens, clone MGC:22776 IMAGE:4700840, mRNA, complete cds, RIKEN cDNA 1700023A18 gene, RIKEN cDNA 1700081D17 gene, phosphatidylethanolamine binding protein, prostatic binding protein
3369	442	NM_017229	y	phosphodiesterase 3B, cGMP-inhibited	ESTs, Highly similar to CN3B MOUSE CGMP-INHIBITED 3',5'-CYCLIC PHOSPHODIESTERASE B [M.musculus], ESTs, Highly similar to CN3B RAT CGMP-INHIBITED 3',5'-CYCLIC PHOSPHODIESTERASE B [R.norvegicus], ESTs, Highly similar to CN3B_HUMAN CGMP-INHIBITED 3',5'-CYCLIC PHOSPHODIESTERASE B [H.sapiens], expressed sequence A1847709, phosphodiesterase 3B, cGMP-inhibited
65	14250	AA799729	qq, vv	phosphodiesterase 4B, cAMP specific, phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila)	phosphodiesterase 4B, cAMP specific, phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila), phosphodiesterase 9A
3870	1339	NM_031715	e, bb	phosphofructokinase, muscle	ESTs, Highly similar to phosphofructokinase, muscle; phosphofructokinase-1 A isozyme [Mus musculus] [M.musculus], expressed sequence A1131669, phosphofructokinase, muscle
2975	12058	L25387	t	phosphofructokinase, platelet	ESTs, Highly similar to K6PP_MOUSE 6-PHOSPHOFRUCTOKINASE, TYPE C (PHOSPHOFRUCTOKINASE 1) (PHOSPHOHEXOKINASE) (PHOSPHOFRUCTO-1-KINASE ISOZYME C) (PFK-C) [M.musculus], ESTs, Moderately similar to A53047 6-phosphofructokinase [R.norvegicus], ESTs, Weakly similar to JC2055 6-phosphofructokinase [H.sapiens], ESTs, Weakly similar to K6PL_MOUSE 6-PHOSPHOFRUCTOKINASE, LIVER TYPE [M.musculus], phosphofructokinase, platelet

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3300	24861	NM_017033	p, General	phosphoglucomutase 1, phosphoglucomutase 2	ESTs, Highly similar to PMRT phosphoglucomutase (EC 5.4.2.2) 1 - rat [R.norvegicus], ESTs, Highly similar to S62628 phosphoglucomutase-related protein - mouse [M.musculus], ESTs, Moderately similar to S62628 phosphoglucomutase-related protein - mouse [M.musculus], RIKEN cDNA 2610020G18 gene, phosphoglucomutase 1
3300	24862	NM_017033	x, General	phosphoglucomutase 1, phosphoglucomutase 2	ESTs, Highly similar to PMRT phosphoglucomutase (EC 5.4.2.2) 1 - rat [R.norvegicus], ESTs, Highly similar to S62628 phosphoglucomutase-related protein - mouse [M.musculus], ESTs, Moderately similar to S62628 phosphoglucomutase-related protein - mouse [M.musculus], RIKEN cDNA 2610020G18 gene, phosphoglucomutase 1
3952	1311	NM_053291	j, s, t	phosphoglycerate kinase 1	ESTs, Highly similar to A33792 phosphoglycerate kinase (EC 2.7.2.3) - rat [R.norvegicus], phosphoglycerate kinase 1, phosphoglycerate kinase 2
2105	4091	AI169417	l, rr, tt	phosphoglycerate mutase 1, phosphoglycerate mutase 1 (brain)	ESTs, Highly similar to PMGB_HUMAN PHOSPHOGLYCERATE MUTASE, BRAIN FORM [H.sapiens], phosphoglycerate mutase 1, phosphoglycerate mutase 1 (brain)
3376	24582	NM_017243	kk, pp	phosphoribosyl pyrophosphate synthetase 1	Mus musculus, phosphoribosyl pyrophosphate synthetase-associated protein 2, clone MGC:36957 IMAGE:4947226, mRNA, complete cds, RIKEN cDNA 5730409F23 gene, expressed sequence C76678, phosphoribosyl pyrophosphate synthetase 1
107	4832	AA800190	oo	phosphorylase, glycogen; brain	liver glycogen phosphorylase, muscle glycogen phosphorylase, phosphorylase, glycogen; brain
4038	13369	NM_053742	v	phosphatidylinositol transfer protein, beta	ESTs, Highly similar to PPI2_HUMAN PHOSPHATIDYLINOSITOL TRANSFER PROTEIN BETA ISOFORM [H.sapiens], phosphatidylinositol transfer protein, beta
3550	20312	NM_022224	bb	phosphotriesterase related	phosphotriesterase related
3844	6554	NM_031640	f	plasma glutamate carboxypeptidase	plasma glutamate carboxypeptidase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2571	19288	AI231305	e	platelet derived growth factor receptor, alpha polypeptide, platelet-derived growth factor receptor, alpha polypeptide	platelet derived growth factor receptor, alpha polypeptide, platelet-derived growth factor receptor, alpha polypeptide, platelet-derived growth factor receptor, beta polypeptide
1454	1332	AI013222	mm	platelet derived growth factor, alpha, platelet-derived growth factor alpha polypeptide	platelet derived growth factor, alpha, platelet-derived growth factor alpha polypeptide
4394	25642	U77697	gg, hh	platelet/endothelial cell adhesion molecule, platelet/endothelial cell adhesion molecule (CD31 antigen)	
4082	17937	NM_053911	ss, uu	pleckstrin homology, Sec7 and coiled/coil domains 2, pleckstrin homology, Sec7 and coiled/coil domains 2 (cytohesin-2)	F-box only protein 8, KIAA0522 protein, KIAA1110 protein, Mus musculus, Similar to KIAA0763 gene product, clone IMAGE:4503056, mRNA, partial cds, f-box only protein 8, pleckstrin homology, Sec7 and coiled/coil domains 2, pleckstrin homology, Sec7 and coiled/coil domains 2 (cytohesin-2)
3532	20090	NM_021757	v, ww	pleiotropic regulator 1 (PRL1 homolog, Arabidopsis), pleiotropic regulator 1, PRL1 homolog (Arabidopsis)	WD repeat domain 12, f-box and WD-40 domain protein 4, katanin p80 (WD40-containing) subunit B 1, pleiotropic regulator 1 (PRL1 homolog, Arabidopsis), pleiotropic regulator 1, PRL1 homolog (Arabidopsis), transducin (beta)-like 2.
4361	1392	U10188	j	polo-like kinase (Drosophila), polo-like kinase homolog, (Drosophila)	Rattus norvegicus polo-like kinase isoform mRNA, partial cds, endoplasmic reticulum (ER) to nucleus signalling 1, polo-like kinase (Drosophila), polo-like kinase homolog, (Drosophila)
2650	5778	AI233246	ii	polymerase (RNA) II (DNA directed) polypeptide B (140kD)	EST, Weakly similar to T42723 probable DNA-directed RNA polymerase (EC 2.7.7.6) I second largest chain - mouse [M.musculus], ESTs, Weakly similar to RNA polymerase I (127 kDa subunit) [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to T42723 probable DNA-directed RNA polymerase (EC 2.7.7.6) I second largest chain - mouse [M.musculus], RIKEN cDNA 2700078H01 gene, RNA polymerase 1-2 (128 kDa subunit), RNA polymerase I (127 kDa subunit), polymerase (RNA) II (DNA directed) polypeptide B (140kD)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2654	5779	AI233350	I	polymerase (RNA) II (DNA directed) polypeptide B (140kD)	EST, Weakly similar to T42723 probable DNA-directed RNA polymerase (EC 2.7.7.6) I second largest chain - mouse [M.musculus], ESTs, Weakly similar to RNA polymerase I (127 kDa subunit) [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to T42723 probable DNA-directed RNA polymerase (EC 2.7.7.6) I second largest chain - mouse [M.musculus], RIKEN cDNA 2700078H01 gene, RNA polymerase 1-2 (128 kDa subunit), RNA polymerase I (127 kDa subunit), polymerase (RNA) II (DNA directed) polypeptide B (140kD)
4085	15857	NM_053948	b, e, bb, oo, ww	polymerase (RNA) II (DNA directed) polypeptide G	polymerase (RNA) II (DNA directed) polypeptide G
2865	4714	AI639518	k, ww, xx	polymerase (RNA) II (DNA directed) polypeptide H	polymerase (RNA) II (DNA directed) polypeptide H
3508	15911	NM_019907	ww	postsynaptic protein CRIPT, postsynaptic protein Crip1	
3298	11836	NM_017023	g	potassium inwardly-rectifying channel, subfamily J, member 1	potassium inwardly-rectifying channel, subfamily J, member 1
3195	24528	NM_012973	g	potassium voltage-gated channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related subfamily, member 1	potassium voltage-gated channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related subfamily, member 1
4184	2788	NM_133528	z, ee	preimplantation protein 3	preimplantation protein 3
4476	1620	X97374	bb	prepronociceptin	
3438	20256	NM_019163	ii	presenilin 1, presenilin 1 (Alzheimer disease 3)	presenilin 1, presenilin 1 (Alzheimer disease 3)
3096	18553	NM_012631	b, c, qq, vv	prion protein, prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)	prion protein, prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)
3946	23895	NM_033485	tt	PRKC, apoptosis, WT1, regulator	ESTs, Weakly similar to Ser/Arg-related nuclear matrix protein; plenty-of-prolines-101; serine/arginine repetitive matrix protein 1 [Mus musculus] [M.musculus], Mus musculus, Similar to hypothetical protein MGC13125, clone MGC:38070 IMAGE:5252666, mRNA, complete cds, PRKC, apoptosis, WT1, regulator, expressed sequence AI480556, glucocorticoid-induced gene 1, serine/arginine repetitive matrix 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3457	15504	NM_019237	d	procollagen C-endopeptidase enhancer, procollagen C-proteinase enhancer protein	EST, Weakly similar to PCO1_HUMAN PROCOLLAGEN C-PROTEINASE ENHANCER PROTEIN PRECURSOR [H.sapiens], ESTs, Weakly similar to PCO1_RAT Procollagen C-proteinase enhancer protein precursor (PCPE) (Type I procollagen COOH-terminal proteinase enhancer) (Type 1 procollagen C-proteinase enhancer protein) [R.norvegicus], expressed sequence AI043106, membrane frizzled-related protein, procollagen C-endopeptidase enhancer, procollagen C-endopeptidase enhancer 2, procollagen C-proteinase enhancer protein
3205	19391	NM_012998	t, y, mm	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide (protein disulfide isomerase; thyroid hormone binding protein p55), prolyl 4-hydroxylase, beta polypeptide	
3205	19392	NM_012998	j, gg, hh	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide (protein disulfide isomerase; thyroid hormone binding protein p55), prolyl 4-hydroxylase, beta polypeptide	
3205	19393	NM_012998	gg, hh, ll	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide (protein disulfide isomerase; thyroid hormone binding protein p55), prolyl 4-hydroxylase, beta polypeptide	
3534	17936	NM_021766	qq	progesterone receptor membrane component 1	Homo sapiens, clone MGC32124 IMAGE:4877960, mRNA, complete cds, RIKEN cDNA 4631434O11 gene, progesterone receptor membrane component 1
3031	21670	M80601	f, l, z, General	programmed cell death 2	ESTs, Weakly similar to A41257 apoptosis protein RP-8 - rat (fragment) [R.norvegicus], RIKEN cDNA 6030457N17 gene, programmed cell death 2



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3095	24568	NM_012630	g	prolactin receptor	prolactin receptor, prolactin receptor related sequence 1
3559	11454	NM_022381	c, f, kk, tt	proliferating cell nuclear antigen	proliferating cell nuclear antigen
3559	11455	NM_022381	c, f, jj, kk, nn	proliferating cell nuclear antigen	proliferating cell nuclear antigen
3462	888	NM_019246	n	proprotein convertase subtilisin/kexin type 7	proprotein convertase subtilisin/kexin type 7
1829	18838	AI101102	ee	prosaposin, prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	
3209	23543	NM_013013	w, y	prosaposin, prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	
3209	23544	NM_013013	c	prosaposin, prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	
3119	503	NM_012704	k	prostaglandin E receptor 3 (subtype EP3)	
3461	21109	NM_019243	r	prostaglandin F2 receptor negative regulator	RIKEN cDNA 4833439017 gene, immunoglobulin superfamily, member 2, immunoglobulin superfamily, member 3, immunoglobulin superfamily, member 8, prostaglandin F2 receptor negative regulator
3812	692	NM_031557	g	prostaglandin I2 (prostacyclin) synthase	EST, Highly-similar to PTGI_RAT Prostacyclin synthase (Prostaglandin I2 synthase) [R.norvegicus], cytochrome P450, subfamily VIIIB (sterol 12-alpha-hydroxylase), polypeptide 1, prostaglandin I2 (prostacyclin) synthase
3370	20192	NM_017232	s	prostaglandin-endoperoxide synthase 2, prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	prostaglandin-endoperoxide synthase 2, prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
3370	20193	NM_017232	qq, vv	prostaglandin-endoperoxide synthase 2, prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	prostaglandin-endoperoxide synthase 2, prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
3921	15470	NM_031978	u, mm	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1, proteasome (prosome, macropain) 26S subunit, non-ATPase, 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2219	7579	A1172453	v	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10	RIKEN cDNA 0610013D04 gene, ankyrin repeat and SOCS box-containing protein 8, ankyrin repeat, family A (RFXANK-like), 2, fem-1 homolog b (C. elegans), feminization 1 homolog b (C. elegans), proteasome (prosome, macropain) 26S subunit, non-ATPase, 10
4154	13515	NM_130430	y	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	Homo sapiens cDNA FLJ30777 fis, clone FEBRA2000803, proteasome (prosome, macropain) 26S subunit, non-ATPase, 9
3385	15224	NM_017264	f	proteasome (prosome, macropain) 28 subunit, alpha, proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	proteasome (prosome, macropain) 28 subunit, 3, proteasome (prosome, macropain) 28 subunit, alpha, proteasome (prosome, macropain) activator subunit 1 (PA28 alpha), proteasome (prosome, macropain) activator subunit 3 (PA28 gamma: KI)
3391	15141	NM_017278	gg, hh	proteasome (prosome, macropain) subunit, alpha type 1, proteasome (prosome, macropain) subunit, alpha type, 1	proteasome (prosome, macropain) subunit, alpha type 1, proteasome (prosome, macropain) subunit, alpha type, 1
3392	5747	NM_017279	p	proteasome (prosome, macropain) subunit, alpha type 2, proteasome (prosome, macropain) subunit, alpha type, 2	RIKEN cDNA 5430437J10 gene, proteasome (prosome, macropain) subunit, alpha type 2, proteasome (prosome, macropain) subunit, alpha type, 2
3392	5748	NM_017279	xx	proteasome (prosome, macropain) subunit, alpha type 2, proteasome (prosome, macropain) subunit, alpha type, 2	RIKEN cDNA 5430437J10 gene, proteasome (prosome, macropain) subunit, alpha type 2, proteasome (prosome, macropain) subunit, alpha type, 2
3393	1447	NM_017281	t	proteasome (prosome, macropain) subunit, alpha type 4, proteasome (prosome, macropain) subunit, alpha type, 4	EST, Moderately similar to PRC9_HUMAN PROTEASOME COMPONENT C9 [H.sapiens], proteasome (prosome, macropain) subunit, alpha type 4, proteasome (prosome, macropain) subunit, alpha type, 4
3394	3254	NM_017282	e, kk, mm, nn	proteasome (prosome, macropain) subunit, alpha type 5, proteasome (prosome, macropain) subunit, alpha type, 5	proteasome (prosome, macropain) subunit, alpha type 5, proteasome (prosome, macropain) subunit, alpha type, 5
3394	3256	NM_017282	l, j, xx	proteasome (prosome, macropain) subunit, alpha type 5, proteasome (prosome, macropain) subunit, alpha type, 5	proteasome (prosome, macropain) subunit, alpha type 5, proteasome (prosome, macropain) subunit, alpha type, 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3395	15535	NM_017283	ll	proteasome (prosome, macropain) subunit, alpha type 6, proteasome (prosome, macropain) subunit, alpha type, 6	ESTs, Highly similar to S30274 multicatalytic endopeptidase complex [H.sapiens], ESTs, Weakly similar to JX0230 multicatalytic endopeptidase complex (EC 3.4.99.46) iota chain - rat [R.norvegicus], proteasome (prosome, macropain) subunit, alpha type 6
3762	15539	NM_031132	v	proteasome (prosome, macropain) subunit, alpha type 6, proteasome (prosome, macropain) subunit, alpha type, 6, transforming growth factor, beta receptor II, transforming growth factor, beta receptor II (70-80kD)	ESTs, Highly similar to S30274 multicatalytic endopeptidase complex [H.sapiens], ESTs, Weakly similar to JX0230 multicatalytic endopeptidase complex (EC 3.4.99.46) iota chain - rat [R.norvegicus], proteasome (prosome, macropain) subunit, alpha type 6, transforming growth factor, beta receptor II, transforming growth factor, beta receptor II (70-80kD)
3396	12523	NM_017285	lt	proteasome (prosome, macropain) subunit, beta type 3, proteasome (prosome, macropain) subunit, beta type, 3	EST, Moderately similar to S40468 proteasome subunit RC10-li - rat [R.norvegicus], ESTs, Weakly similar to proteasome (prosome, macropain) subunit, beta type, 3 [Mus musculus] [M.musculus], ESTs, Weakly similar to S40468 proteasome subunit RC10-li - rat [R.norvegicus], proteasome (prosome, macropain) subunit, beta type 3, proteasome (prosome, macropain) subunit, beta type 3
3396	12524	NM_017285	kk	proteasome (prosome, macropain) subunit, beta type 3, proteasome (prosome, macropain) subunit, beta type, 3	EST, Moderately similar to S40468 proteasome subunit RC10-li - rat [R.norvegicus], ESTs, Weakly similar to proteasome (prosome, macropain) subunit, beta type, 3 [Mus musculus] [M.musculus], ESTs, Weakly similar to S40468 proteasome subunit RC10-li - rat [R.norvegicus], proteasome (prosome, macropain) subunit, beta type 3, proteasome (prosome, macropain) subunit, beta type 3
3842	20940	NM_031629	y, nn	proteasome (prosome, macropain) subunit, beta type 4, proteasome (prosome, macropain) subunit, beta type, 4	proteasome (prosome, macropain) subunit, beta type 4, proteasome (prosome, macropain) subunit, beta type, 4
3842	20941	NM_031629	bb	proteasome (prosome, macropain) subunit, beta type 4, proteasome (prosome, macropain) subunit, beta type, 4	proteasome (prosome, macropain) subunit, beta type 4, proteasome (prosome, macropain) subunit, beta type, 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3842	20942	NM_031629	mm	proteasome (prosome, macropain) subunit, beta type 4, proteasome (prosome, macropain) subunit, beta type, 4	proteasome (prosome, macropain) subunit, beta type 4, proteasome (prosome, macropain) subunit, beta type, 4
2896	9135	D45247	b, mm	proteasome (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type, 5	EST, Moderately similar to PSB5_RAT Proteasome subunit beta type 5 precursor (Proteasome epsilon chain) (Macropain epsilon chain) (Multicatalytic endopeptidase complex epsilon chain) (Proteasome subunit X) (Proteasome chain 6) [R.norvegicus], RIKEN cDNA 5830406J20 gene, proteasome (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type, 5
2896	9134	D45247	j, y	proteasome (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type, 5	
4108	22849	NM_057099	c	proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type, 6	proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type, 6
3120	4002	NM_012708	p, General, nn	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)
3120	4003	NM_012708	p	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)
3120	4004	NM_012708	nn	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3120	4005	NM_012708	General	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteosome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2), proteosome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2)
3145	556	NM_012803	b, u, x, dd	protein C, protein C (inactivator of coagulation factors Va and VIIIa)	B-factor, properdin, ESTs, Weakly similar to S18994 protein C (activated) (EC 3.4.21.69) precursor - rat [R.norvegicus], histocompatibility 2, complement component factor B, protein C, protein C (inactivator of coagulation factors Va and VIIIa)
3121	24545	NM_012713	s	protein kinase C, beta, protein kinase C, beta 1	
3577	1468	NM_022507	dd	protein kinase C, zeta	protein kinase C, iota, protein kinase C, lambda, protein kinase C, zeta
3351	114	NM_017175	oo	protein kinase C-like 1	EST, Weakly similar to B Chain B, Crystal Structure Of Human Rhoa Complexed With The Effector Domain Of The Protein Kinase PknPRK1 {SUB 13-98 [H.sapiens], ESTs, Highly similar to PKL1 MOUSE PROTEIN KINASE C-LIKE 1 [M.musculus], ESTs, Highly similar to PKL1_RAT PROTEIN KINASE C-LIKE 1 (PROTEIN-KINASE C-RELATED KINASE 1) (PROTEIN KINASE C-LIKE PKN) (SERINE-THREONINE PROTEIN KINASE N) (PROTEASE-ACTIVATED KINASE 1) (PAK-1) [R.norvegicus], expressed sequence AI507382, expressed sequence AW209115, protein kinase C-like 1, protein kinase C-like 1
3920	17601	NM_031976	ww	protein kinase, AMP-activated, beta 1 non-catalytic subunit	expressed sequence AW049591, protein kinase, AMP-activated, beta 1 non-catalytic subunit

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3405	19671	NM_017309	k, mm	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I), protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), alpha isoform (calcineurin B, type I)	ESTs, Highly similar to CALC_MOUSE CALCINEURIN B SUBUNIT ISOFORM 2 (PROTEIN PHOSPHATASE 2B REGULATORY SUBUNIT 2) (PROTEIN PHOSPHATASE 3 REGULATORY SUBUNIT B ALPHA ISOFORM 2) [M.musculus], ESTs, Weakly similar to calcium binding protein Kip 2 [M.musculus], Homo sapiens cDNA FLJ32962 fis, clone TESTI2008387, highly similar to CALCINEURIN B-LIKE PROTEIN, Mus musculus, Similar to hypothetical protein FLJ12443, clone MGC:8148 IMAGE:3589626, mRNA, complete cds, protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I), protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), alpha isoform (calcineurin B, type I)
3571	4647	NM_022498	h, r, w, rr	protein phosphatase 1, catalytic subunit, gamma isoform	protein phosphatase 1, catalytic subunit, gamma isoform
3613	24564	NM_022676	bb	protein phosphatase 1, regulatory (inhibitor) subunit 1A	EST, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H.sapiens], ESTs, Moderately similar to PROTEIN PHOSPHATASE INHIBITOR 1 [R.norvegicus], Mus musculus, clone MGC:18770 IMAGE:4164563, mRNA, complete cds, RIKEN cDNA 4930565M23 gene, protein phosphatase 1 regulatory subunit 1A, protein phosphatase 1, regulatory (inhibitor) subunit 1A
4334	25505	S65091	g, y	protein phosphatase 1, regulatory (inhibitor) subunit 1C	
3302	3202	NM_017039	t	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform, protein phosphatase 2a, catalytic subunit, alpha isoform	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform, protein phosphatase 2a, catalytic subunit, alpha isoform
3302	3203	NM_017039	oo	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform, protein phosphatase 2a, catalytic subunit, alpha isoform	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform, protein phosphatase 2a, catalytic subunit, alpha isoform

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1566	5648	AI044035	ss	protein phosphatase 4, regulatory subunit 1	ESTs, Weakly similar to protein phosphatase 4, regulatory subunit 1 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to protein serine/threonine phosphatase 4 regulatory subunit 1 [H.sapiens], protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform, protein phosphatase 4, regulatory subunit 1
3820	24219	NM_031579	n, General	protein tyrosine phosphatase 4a1, protein tyrosine phosphatase type IVA, member 1	protein tyrosine phosphatase 4a1, protein tyrosine phosphatase 4a3, protein tyrosine phosphatase type IVA, member 1, protein tyrosine phosphatase type IVA, member 3
3097	1840	NM_012637	g	protein tyrosine phosphatase, non-receptor type 1	EST, Moderately similar to A34845 protein-tyrosine-phosphatase (EC 3.1.3.48), nonreceptor type 1B - rat [R.norvegicus], ESTs, Moderately similar to PTN1_HUMAN PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1 [H.sapiens], protein tyrosine phosphatase, non-receptor type 1
3097	1841	NM_012637	ww	protein tyrosine phosphatase, non-receptor type 1	EST, Moderately similar to A34845 protein-tyrosine-phosphatase (EC 3.1.3.48), nonreceptor type 1B - rat [R.norvegicus], ESTs, Moderately similar to PTN1_HUMAN PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1 [H.sapiens], protein tyrosine phosphatase, non-receptor type 1
3097	1844	NM_012637	ww	protein tyrosine phosphatase, non-receptor type 1	EST, Moderately similar to A34845 protein-tyrosine-phosphatase (EC 3.1.3.48), nonreceptor type 1B - rat [R.norvegicus], ESTs, Moderately similar to PTN1_HUMAN PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1 [H.sapiens], protein tyrosine phosphatase, non-receptor type 1
4301	242	NM_145683	u	protein tyrosine phosphatase, non-receptor type 7	protein tyrosine phosphatase, non-receptor type 7
3210	11905	NM_013016	s, x	protein tyrosine phosphatase, non-receptor type substrate 1	ESTs, Moderately similar to JC5288 SHP substrate-1 protein, 509 - mouse [M.musculus], ESTs, Weakly similar to JC5288 SHP substrate-1 protein, 509 - mouse [M.musculus], protein tyrosine phosphatase, non-receptor type substrate 1, signal-regulatory protein beta 1, signal-regulatory protein beta 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3005	668	M25823	jj	protein tyrosine phosphatase, receptor type, C	ESTs, Highly similar to CD45_HUMAN LEUKOCYTE COMMON ANTIGEN PRECURSOR [H.sapiens], protein tyrosine phosphatase, receptor type, C
3431	14971	NM_019140	n, bb	protein tyrosine phosphatase, receptor type, D	ESTs, Weakly similar to 2103274A receptor type protein Tyr phosphatase [M.musculus], RIKEN cDNA 1600019O04 gene, expressed sequence AU040377, protein tyrosine phosphatase, receptor type, S
3431	14975	NM_019140	dd	protein tyrosine phosphatase, receptor type, D	ESTs, Weakly similar to 2103274A receptor type protein Tyr phosphatase [M.musculus], RIKEN cDNA 1600019O04 gene, expressed sequence AU040377, protein tyrosine phosphatase, receptor type, S
3464	1973	NM_019249	h, q, r, w, z, General, ee, nn	protein tyrosine phosphatase, receptor type, F, protein tyrosine phosphatase, receptor type, F	ESTs, Weakly similar to 2103274A receptor type protein Tyr phosphatase [M.musculus], ESTs, Weakly similar to S40282 protein-tyrosine-phosphatase [M.musculus], ESTs, Weakly similar to S46216 leukocyte antigen-related protein precursor - rat [R.norvegicus], Mus musculus, clone IMAGE:5101040, mRNA, partial cds, protein tyrosine phosphatase, non-receptor type 9, protein tyrosine phosphatase, receptor type, D, protein tyrosine phosphatase, receptor type, F, protein tyrosine phosphatase, receptor-type, F
3700	20410	NM_030990	g, bb, cc	proteolipid protein (myelin), proteolipid protein1 (Pelizaeus-Merzbacher disease, spastic paraplegia 2, uncomplicated)	Mus musculus 15 days embryo male testis cDNA; RIKEN full-length enriched library, clone:8030496P19:glycoprotein m6b, full insert sequence, Mus musculus, clone MGC:32434 IMAGE:5041793, mRNA, complete cds, PH domain containing protein in retina 1, glycoprotein m6b, proteolipid protein (myelin)
3526	22916	NM_021740	ff	prothymosin alpha, prothymosin, alpha (gene sequence 28)	ESTs, Highly similar to THYA_HUMAN PROTHYMOSIN ALPHA [H.sapiens], RIKEN cDNA 2610009E16 gene, prothymosin alpha, prothymosin, alpha (gene sequence 28)
3826	21843	NM_031594	e, ee, tt, ww	purinergic receptor P2X, ligand-gated ion channel 4, purinergic receptor P2X, ligand-gated ion channel, 4	purinergic receptor P2X, ligand-gated ion channel 4, purinergic receptor P2X, ligand-gated ion channel, 4



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3382	1496	NM_017255	qq, vv	purinergic receptor P2Y, G-protein coupled 2, purinergic receptor P2Y, G-protein coupled, 2	G protein-coupled receptor 31, G protein-coupled receptor 35, Mus musculus, clone MGC:28142 IMAGE:3982042, mRNA, complete cds, RIKEN cDNA 2610302102 gene, RIKEN cDNA 5830408N17 gene, expressed sequence A1662791, purinergic receptor P2Y, G-protein coupled 2, purinergic receptor P2Y, G-protein coupled, 2
3855	15823	NM_031680	g	pyrimidinergic receptor P2Y, G-protein coupled, 4	G protein-coupled receptor 17, G protein-coupled receptor 23, G protein-coupled receptor 35, purinergic receptor (family A group 5), pyrimidinergic receptor P2Y, G-protein coupled, 4
4482	20426	Z12158	ff, gg, hh	pyruvate dehydrogenase (lipoamide) alpha 1, pyruvate dehydrogenase E1 alpha 1	
3697	1928	NM_030872	z, General, ee, kk	pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase, isoenzyme 2	Mus musculus, Similar to pyruvate dehydrogenase kinase, isoenzyme 1, clone MGC:28719 IMAGE:4458562, mRNA, complete cds, Mus musculus, Similar to pyruvate dehydrogenase kinase, isoenzyme 3, clone MGC:6383 IMAGE:3500763, mRNA, complete cds, pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase isoenzyme 2
4238	14822	NM_138708	m, s	RAB geranylgeranyl transferase, b subunit, Rab geranylgeranyltransferase, beta subunit	RAB geranylgeranyl transferase, b subunit, Rab geranylgeranyltransferase, beta subunit, expressed sequence AA409500
3422	20417	NM_017359	General	RAB10, member RAS oncogene family	ESTs, Weakly similar to RAB8_HUMAN RAS-RELATED PROTEIN RAB-8 [H.sapiens], RAB10, member RAS oncogene family, RAB12, member RAS oncogene family, RAB38, member RAS oncogene family, expressed sequence AA536966, expressed sequence AW107754
3937	20490	NM_032617	ll	RAB11B, member RAS oncogene family	EST, Weakly similar to R11B MOUSE RAS-RELATED PROTEIN RAB-11B [M.musculus], RAB, member of RAS oncogene family-like 2A, RAB, member of RAS oncogene family-like 2B, RAB11B, member RAS oncogene family, RIKEN cDNA 1110031N17 gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4007	20831	NM_053589	g	RAB14, member RAS oncogene family	EST, Highly similar to GTPase Rab14 [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to F34323 GTP-binding protein Rab5 [H.sapiens], ESTs, Highly similar to RB14_HUMAN RAS-RELATED PROTEIN RAB-14 [R.norvegicus], ESTs, Weakly similar to RB14_HUMAN Ras-related protein Rab-14 [R.norvegicus], Mus musculus Rab-related GTP-binding protein (Rab) mRNA, complete cds, RAB14, member RAS oncogene family
4132	24653	NM_080580	e	RAB3D, member RAS oncogene family	RAB3D, member RAS oncogene family
3420	21846	NM_017355	gg, hh	RAB4B, member RAS oncogene family	Homo sapiens cDNA: FLJ21192 fis, clone COL00107, highly similar to AF165522 Homo sapiens ras-related GTP-binding protein 4b (RAB4B) mRNA, RAB4A, member RAS oncogene family, RAB4B, member RAS oncogene family
217	4230	AA818669	l, ss	RAB7, member RAS oncogene family	ESTs, Weakly similar to RAB7 MOUSE RAS RELATED PROTEIN RAB-7 [M.musculus], Mus musculus, clone MGC:25695 IMAGE:3672128, mRNA, complete cds, RAB7, member RAS oncogene family
3647	4228	NM_023950	u	RAB7, member RAS oncogene family	ESTs, Weakly similar to RAB7 MOUSE RAS RELATED PROTEIN RAB-7 [M.musculus], Mus musculus, clone MGC:25695 IMAGE:3672128, mRNA, complete cds, RAB7, member RAS oncogene family
2891	25278	D30734	k, ii, tt	RAS p21 protein activator 2	
3275	23361	NM_013216	r	RAS-homolog enriched in brain, Ras homolog enriched in brain 2	ESTs, Weakly similar to RALA MOUSE RAS RELATED PROTEIN RAL-A [M.musculus], RAS-homolog enriched in brain, RIKEN cDNA 1810036J22 gene, Ras homolog enriched in brain 2, ras-like protein VTS58635
1908	2069	AI103616	bb	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	ESTs, Highly similar to Cdc42 From Human, Nmr, 20 Structures [H.sapiens], Mus musculus DBC2 protein (Dbc2) mRNA, complete cds, Mus musculus mRNA for small GTPase Tc10, complete cds, RAC3, RIKEN cDNA 1700008H16 gene, ras homolog gene family, member J, ras-like protein, ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
778	4661	AA899709	e	receptor (calcitonin) activity modifying protein 3	receptor (calcitonin) activity modifying protein 3
4001	10986	NM_053571	c, l, m, General	regucalcin gene promotor region related protein	Mus musculus, Similar to KIAA0310 gene product, clone IMAGE:5066362, mRNA, partial cds, regucalcin gene promotor region related protein
3810	28	NM_031546	v, rr	regucalcin, regucalcin (senescence marker protein-30)	regucalcin, regucalcin (senescence marker protein-30)
869	23451	AA925243	j	restin (Reed-Steinberg cell-expressed intermediate filament-associated protein), restin (Reed-Steinberg cell-expressed intermediate filament-associated protein)	CLIP-170-related protein, EST, Weakly similar to restin (Reed-Steinberg cell-expressed intermediate filament-associated protein); cytoplasmic linker protein 50 [Mus musculus] [M.musculus], ESTs, Weakly similar to T42720 cytoplasmic linker protein CLIP-115 - mouse [M.musculus], RIKEN cDNA 1500005P14 gene, RIKEN cDNA 4631429H07 gene, RIKEN cDNA 4833417L20 gene, cytoplasmic linker 2, cytoskeleton-associated protein 1, restin (Reed-Steinberg cell-expressed intermediate filament-associated protein), restin (Reed-Steinberg cell-expressed intermediate filament-associated protein)
2546	1378	AI230602	m	retinoblastoma-like 2, retinoblastoma-like 2 (p130)	Mus musculus 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2700054A06:retinoblastoma-like 1 (p107), full insert sequence, retinoblastoma-like 1 (p107), retinoblastoma-like 2, retinoblastoma-like 2 (p130)
3744	1376	NM_031094	a	retinoblastoma-like 2, retinoblastoma-like 2 (p130)	Mus musculus 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2700054A06:retinoblastoma-like 1 (p107), full insert sequence, retinoblastoma-like 1 (p107), retinoblastoma-like 2, retinoblastoma-like 2 (p130)
3126	23806	NM_012733	b, qq	retinol binding protein 1, cellular	ESTs, Weakly similar to RET1_RAT Retinol-binding protein 1, cellular (Cellular retinol-binding protein) (CRBP) [R.norvegicus], retinoid binding protein 7, retinol binding protein 1, cellular, retinol binding protein 5, cellular, retinol binding protein 7, cellular
2434	3376	AI179755	w	Rho guanine nucleotide exchange factor (GEF) 5	ESTs, Weakly similar to guanine nucleotide regulatory protein [H.sapiens], Rho guanine nucleotide exchange factor (GEF) 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3512	12087	NM_020082	d	ribonuclease, RNase A family 4, ribonuclease, RNase A family, 4	ESTs, Weakly similar to RNL4_RAT Ribonuclease 4 precursor (RNase 4) (RL3) [R.norvegicus], angiogenin, angiogenin related protein, angiogenin-like, expressed sequence AI385586, ribonuclease, RNase A family 4, ribonuclease, RNase A family, 4
3861	21575	NM_031698	xx	ribophorin II	EST, Moderately similar to RIB2_HUMAN DOLICHYL-DIPHOSPHOOLIGOSACCHARIDE-PROTEIN GLYCOSYLTRANSFERASE 63 KDA SUBUNIT PRECURSOR [H.sapiens], ESTs, Moderately similar to RIB2_HUMAN DOLICHYL-DIPHOSPHOOLIGOSACCHARIDE-PROTEIN GLYCOSYLTRANSFERASE 63 KDA SUBUNIT PRECURSOR [H.sapiens], ribophorin 2, related sequence 1, ribophorin II
3736	11849	NM_031065	j, z, General, II	ribosomal protein L10A, ribosomal protein L10a	EST, Moderately similar to R10A MOUSE 60S RIBOSOMAL PROTEIN L10A [M.musculus], ribosomal protein L10A, ribosomal protein L10a
2823	19112	AI639157	w	ribosomal protein L13	EST, Moderately similar to JC2368 ribosomal protein L13, cytosolic [validated] - rat [R.norvegicus], EST, Weakly similar to JC2368 ribosomal protein L13, cytosolic [validated] - rat [R.norvegicus], ESTs, Highly similar to ribosomal protein L13; 60S ribosomal protein L13; breast basic conserved protein 1 [Homo sapiens] [H.sapiens], ESTs, Moderately similar to RL13 MOUSE 60S RIBOSOMAL PROTEIN L13 [M.musculus], Homo sapiens cDNA FLJ30941 fis, clone FEBRA2007458, Human RPL13-2 pseudogene mRNA, complete cds, ribosomal protein L13

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3748	23854	NM_031101	General	ribosomal protein L13	EST, Moderately similar to JC2368 ribosomal protein L13, cytosolic [validated] - rat [R.norvegicus], EST, Weakly similar to JC2368 ribosomal protein L13, cytosolic [validated] - rat [R.norvegicus], ESTs, Highly similar to ribosomal protein L13; 60S ribosomal protein L13; breast basic conserved protein 1 [Homo sapiens] [H.sapiens], ESTs, Moderately similar to RL13 MOUSE 60S RIBOSOMAL PROTEIN L13 [M.musculus], Homo sapiens cDNA FLJ30941 fis, clone FEBRA2007458, Human RPL13-2 pseudogene mRNA, complete cds, ribosomal protein L13
3749	20462	NM_031102	h, m	ribosomal protein L18	ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L18 [M.musculus], ribosomal protein L18
3750	16938	NM_031103	ee	ribosomal protein L19	EST, Weakly similar to RL19 MOUSE 60S RIBOSOMAL PROTEIN L19 [M.musculus], ESTs, Weakly similar to RL19_HUMAN 60S RIBOSOMAL PROTEIN L1 [M.musculus], ESTs, Weakly similar to RL19_HUMAN 60S ribosomal protein L19 [R.norvegicus], ribosomal protein L19
2235	12614	AI175294	General	ribosomal protein L21	EST, Moderately similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Moderately similar to RL21_RAT 60S RIBOSOMAL PROTEIN L21 [R.norvegicus], EST, Weakly similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Weakly similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST, Weakly similar to RL21_HUMAN 60S RIBOSOMAL PROTEIN L21 [H.sapiens], ESTs, Highly similar to 2113200B ribosomal protein L21 [H.sapiens], ESTs, Highly similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], ESTs, Moderately similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], ribosomal protein L21

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3960	14928	NM_053330	ff, gg, hh	ribosomal protein L21	EST, Moderately similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Moderately similar to RL21_RAT 60S RIBOSOMAL PROTEIN L21 [R.norvegicus], EST, Weakly similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Weakly similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST, Weakly similar to RL21_HUMAN 60S RIBOSOMAL PROTEIN L21 [H.sapiens], ESTs, Highly similar to 2113200B ribosomal protein L21 [H.sapiens], ESTs, Highly similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], ESTs, Moderately similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], ribosomal protein L21
3751	19268	NM_031104	gg, hh	ribosomal protein L22	ESTs, Highly similar to 60S RIBOSOMAL PROTEIN L22 [H.sapiens], RIKEN cDNA 2700038K18 gene, RIKEN cDNA 3110001N18 gene, ribosomal protein L22
4437	5667	X58200	h, l, z, General, ee	ribosomal protein L23	
3582	2696	NM_022515	z, General, ee	ribosomal protein L24	Homo sapiens, clone MGC:27044 IMAGE:4793412, mRNA, complete cds, Mus musculus, Similar to 60S ribosomal protein L30 isolog, clone MGC:6735 IMAGE:3590401, mRNA, complete cds, ribosomal protein L24
3582	2697	NM_022515	ee, ll	ribosomal protein L24	Homo sapiens, clone MGC:27044 IMAGE:4793412, mRNA, complete cds, Mus musculus, Similar to 60S ribosomal protein L30 isolog, clone MGC:6735 IMAGE:3590401, mRNA, complete cds, ribosomal protein L24
3581	3027	NM_022514	h, w, ee, ll, qq	ribosomal protein L27	ribosomal protein L27
3617	17729	NM_022697	h, v, x	ribosomal protein L28	ribosomal protein L28
2487	18612	AI228624	a, c, e, kk	ribosomal protein L29	EST, Moderately similar to RL29_HUMAN 60S RIBOSOMAL PROTEIN L29 [H.sapiens], EST, Moderately similar to RL29_RAT 60S RIBOSOMAL PROTEIN L29 (P23) [R.norvegicus], ESTs, Highly similar to S65784 ribosomal protein L29, cytosolic [H.sapiens], ribosomal protein L29

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3338	5351	NM_017150	j	ribosomal protein L29	EST, Moderately similar to RL29_HUMAN 60S RIBOSOMAL PROTEIN L29 [H.sapiens], EST, Moderately similar to RL29_RAT 60S RIBOSOMAL PROTEIN L29 (P23) [R.norvegicus], ESTs, Highly similar to S65784 ribosomal protein L29, cytosolic [H.sapiens], ribosomal protein L29
4437	18611	X58200	h, l, General, ee	ribosomal protein L29	EST, Moderately similar to RL29_HUMAN 60S RIBOSOMAL PROTEIN L29 [H.sapiens], EST, Moderately similar to RL29_RAT 60S RIBOSOMAL PROTEIN L29 (P23) [R.norvegicus], ESTs, Highly similar to S65784 ribosomal protein L29, cytosolic [H.sapiens], ribosomal protein L29
3576	1347	NM_022506	h, l	ribosomal protein L31	EST, Weakly similar to RL31_HUMAN 60S RIBOSOMAL PROTEIN L3 [R.norvegicus], ESTs, Highly similar to RL31_HUMAN 60S RIBOSOMAL PROTEIN L3 [M.musculus], RIKEN cDNA 1700034M11 gene, ribosomal protein L31
3516	15335	NM_021264	General, kk	ribosomal protein L35a	
1354	22748	AI009786	gg, hh	ribosomal protein L41	ESTs, Highly similar to YZA1_HUMAN HYPOTHETICAL PROTEIN [H.sapiens], ribosomal protein L41
4445	15875	X62145	ee, gg, hh	ribosomal protein L8	EST, Highly similar to RL8_HUMAN 60S ribosomal protein L8 [R.norvegicus], EST, Weakly similar to JN0923 ribosomal protein L8, cytosolic [H.sapiens], ESTs, Highly similar to R5RTL8 ribosomal protein L8, cytosolic [validated] - rat [R.norvegicus], ESTs, Highly similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], ESTs, Moderately similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], expressed sequence AI024098, ribosomal protein L8
4445	25718	X62145	c, cc	ribosomal protein L8	
4429	20427	X53378	General, ll	ribosomal protein S13	ESTs, Moderately similar to RS13_HUMAN 40S RIBOSOMAL PROTEIN S13 [H.sapiens], ribosomal protein S13
3611	17567	NM_022672	h, gg, hh	ribosomal protein S14	EST, Weakly similar to JE0129 ribosomal protein S14 - mouse [M.musculus], ESTs, Highly similar to JE0129 ribosomal protein S14 - mouse [M.musculus], expressed sequence AL023078, ribosomal protein S14

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3339	16953	NM_017151	h, ll	ribosomal protein S15	EST, Moderately similar to R3HU15 ribosomal protein S15, cytosolic [H.sapiens], ESTs, Highly similar to RS15_HUMAN 40S RIBOSOMAL PROTEIN S15 [M.musculus], ribosomal protein S15
3339	16954	NM_017151	bb, gg, hh	ribosomal protein S15	EST, Moderately similar to R3HU15 ribosomal protein S15, cytosolic [H.sapiens], ESTs, Highly similar to RS15_HUMAN 40S RIBOSOMAL PROTEIN S15 [M.musculus], ribosomal protein S15
3339	16955	NM_017151	e	ribosomal protein S15	EST, Moderately similar to R3HU15 ribosomal protein S15, cytosolic [H.sapiens], ESTs, Highly similar to RS15_HUMAN 40S RIBOSOMAL PROTEIN S15 [M.musculus], ribosomal protein S15
3340	21643	NM_017152	u, General, ee, ll	ribosomal protein S17	ESTs, Weakly similar to RS17_HUMAN 40S RIBOSOMAL PROTEIN S1 [H.sapiens], ribosomal protein S17
4424	20872	X51707	h	ribosomal protein S19	EST, Moderately similar to R3RT19 ribosomal protein S19, cytosolic [validated] - rat [R.norvegicus], EST, Weakly similar to RS19_HUMAN 40S RIBOSOMAL PROTEIN S19 [H.sapiens]
3266	10499	NM_013184	r, ii	ribosomal protein S23	ESTs, Highly similar to 40S RIBOSOMAL PROTEIN S23 [H.sapiens], ESTs, Weakly similar to ribosomal protein S23 [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to mitochondrial ribosomal protein S12, clone MGC:13892 IMAGE:4209358, mRNA, complete cds, mitochondrial ribosomal protein S12, ribosomal protein S23
4130	10498	NM_078617	w, y	ribosomal protein S23	ESTs, Highly similar to 40S RIBOSOMAL PROTEIN S23 [H.sapiens], ESTs, Weakly similar to ribosomal protein S23 [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to mitochondrial ribosomal protein S12, clone MGC:13892 IMAGE:4209358, mRNA, complete cds, mitochondrial ribosomal protein S12, ribosomal protein S23



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3757	24615	NM_031112	General	ribosomal protein S24	EST, Weakly similar to JH0213 ribosomal protein S24, cytosolic [H.sapiens], EST, Weakly similar to RS24_HUMAN 40S RIBOSOMAL PROTEIN S24 [M.musculus], ESTs, Highly similar to JH0213 ribosomal protein S24, cytosolic [H.sapiens], ribosomal protein S24
4422	10819	X51536	h, k	ribosomal protein S3	EST, Moderately similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], EST, Weakly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Highly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Moderately similar to RS3_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], ESTs, Weakly similar to RS3_MOUSE 40S RIBOSOMAL PROTEIN S3 [M.musculus], hypothetical protein FLJ11252, hypothetical protein FLJ23059, myo-inositol 1-phosphate synthase A1, ribosomal protein S3
4422	25686	X51536	z, General	ribosomal protein S3	
3341	1694	NM_017153	h, z, General, ee	ribosomal protein S3A, ribosomal protein S3a	EST, Weakly similar to JC4662 ribosomal protein S3a, cytosolic [H.sapiens], EST, Weakly similar to RS3A_MOUSE 40S RIBOSOMAL PROTEIN S3A [M.musculus], ESTs, Highly similar to RS3A_HUMAN 40S RIBOSOMAL PROTEIN S3 [H.sapiens], ribosomal protein S3A, ribosomal protein S3a
4416	15652	X14210	h, gg, hh	ribosomal protein S4, X-linked	
4439	25702	X58465	l	ribosomal protein S5	EST, Moderately similar to 2113200E ribosomal protein S5 [H.sapiens], EST, Weakly similar to 2113200E ribosomal protein S5 [H.sapiens], ribosomal protein S5
4439	10109	X58465	h, l, ee, ll	ribosomal protein S5	EST, Moderately similar to 2113200E ribosomal protein S5 [H.sapiens], EST, Weakly similar to 2113200E ribosomal protein S5 [H.sapiens], ribosomal protein S5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3345	17105	NM_017160	ee	ribosomal protein S6	EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], EST, Moderately similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens], EST, Weakly similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], ESTs, Highly similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens], ESTs, Weakly similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens], ribosomal protein S6
3816	9620	NM_031570	h, General, ll	ribosomal protein S7	EST, Moderately similar to JC4388 ribosomal protein S7, cytosolic [H.sapiens], EST, Weakly similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [M.musculus], EST, Weakly similar to RS7_HUMAN 40S ribosomal protein S7 (S8) [R.norvegicus], ESTs, Highly similar to JC4388 ribosomal protein S7, cytosolic [H.sapiens], ESTs, Highly similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [H.sapiens], ESTs, Moderately similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [H.sapiens], ribosomal protein S7
3816	9621	NM_031570	General, rr	ribosomal protein S7	EST, Moderately similar to JC4388 ribosomal protein S7, cytosolic [H.sapiens], EST, Weakly similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [M.musculus], EST, Weakly similar to RS7_HUMAN 40S ribosomal protein S7 (S8) [R.norvegicus], ESTs, Highly similar to JC4388 ribosomal protein S7, cytosolic [H.sapiens], ESTs, Highly similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [H.sapiens], ESTs, Moderately similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [H.sapiens], ribosomal protein S7
3866	16204	NM_031706	l, x, General	ribosomal protein S8	EST, Weakly similar to 40S RIBOSOMAL PROTEIN S8 [M.musculus], ESTs, Highly similar to S25022 ribosomal protein S8, cytosolic [H.sapiens], ESTs, Moderately similar to RS8_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], RIKEN cDNA 1110008P08 gene, ribosomal protein S8

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3886	15647	NM_031773	I, y	RNA polymerase 1-2 (128 kDa subunit), similar to DNA-directed RNA polymerase I (135 kDa)	EST, Weakly similar to T42723 probable DNA-directed RNA polymerase (EC 2.7.7.6) I second largest chain - mouse [M.musculus], ESTs, Weakly similar to RNA polymerase I (127 kDa subunit) [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to T42723 probable DNA-directed RNA polymerase (EC 2.7.7.6) I second largest chain - mouse [M.musculus], RIKEN cDNA 2700078H01 gene, RNA polymerase 1-2 (128 kDa subunit), polymerase (RNA) II (DNA directed) polypeptide B (140kD), similar to DNA-directed RNA polymerase I (135 kDa)
3412	1630	NM_017325	qq, vv	runt related transcription factor 1, runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)	AML1=AML1 {alternatively spliced, exons 5 and b} [human, mRNA Partial, 284 nt], EST, Weakly similar to RUN1_RAT Runt-related transcription factor 1 (Core-binding factor, alpha 2 subunit) (CBF-alpha 2) (Acute myeloid leukemia 1 protein) (Oncogene AML-1) (Polyomavirus enhancer binding protein 2 alpha B subunit) (PEBP2-alpha B) (PEA2-alpha B) [R.norvegicus], ESTs, Highly similar to A48233 polyomavirus enhancer-binding protein 2 alpha chain type 1 - mouse [M.musculus], runt related transcription factor 1, runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)
66	18060	AA799735	c, j, q, x	RuvB-like 1 (E. coli), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene, 1
66	18061	AA799735	dd, oo	RuvB-like 1 (E. coli), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene, 1
3867	18055	NM_031707	nn	RuvB-like 1 (E. coli), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene, 1
3867	18056	NM_031707	c	RuvB-like 1 (E. coli), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene, 1
4311	1382	NM_147177	c, e, dd	RuvB-like 1 (E. coli), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene, 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4335	1471	S68809	e	S100 calcium binding protein A1	ESTs, Weakly similar to S10A MOUSE S-100 PROTEIN, ALPHA CHAIN [M.musculus], S100 calcium binding protein A1, S100 calcium binding protein A11 (calizzarin), S100 calcium binding protein P, S100Z protein, expressed sequence A1266795
3758	19040	NM_031114	qq, vv	S100 calcium binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11)), S100 calcium binding protein A10 (calpactin)	EST, Moderately similar to S110_RAT Calpactin I light chain (P10 protein) (P11) (Cellular ligand of annexin II) (Nerve growth factor induced protein 42C) [R.norvegicus], S100 calcium binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11)), S100 calcium binding protein A10 (calpactin)
2552	13618	A1230724	kk, tt	SAC1 (supressor of actin mutations 1, homolog)-like (S. cerevisiae), SAC1 suppressor of actin mutations 1-like (yeast)	
4052	3677	NM_053798	x	SAC1 (supressor of actin mutations 1, homolog)-like (S. cerevisiae), SAC1 suppressor of actin mutations 1-like (yeast)	
3359	20779	NM_017201	u	S-adenosylhomocysteine hydrolase	Mus musculus, S-adenosylhomocysteine hydrolase-like 1, clone MGC:18748 IMAGE:4007102, mRNA, complete cds, S-adenosylhomocysteine hydrolase, S-adenosylhomocysteine hydrolase, related sequence 3, expressed sequence A1024110
3710	15682	NM_031011	a	S-adenosylmethionine decarboxylase 1	S-adenosylmethionine decarboxylase 1, S-adenosylmethionine decarboxylase 2
3710	15683	NM_031011	kk, oo	S-adenosylmethionine decarboxylase 1	S-adenosylmethionine decarboxylase 1, S-adenosylmethionine decarboxylase 2
3664	4655	NM_024346	u	Scgn10 like-protein, stathmin-like 3	Scgn10 like-protein, stathmin-like 3
3100	16220	NM_012656	c, cc	secreted acidic cysteine rich glycoprotein, secreted protein, acidic, cysteine-rich (osteonectin)	secreted acidic cysteine rich glycoprotein, secreted protein, acidic, cysteine-rich (osteonectin)
1206	3364	AA998097	General	selenium donor protein	Homo sapiens cDNA FLJ30444 fis, clone BRACE2009235, Homo sapiens, clone IMAGE:4293510, mRNA, partial cds, expressed sequence AA589574, selenium donor protein, selenophosphate synthetase 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2537	4280	AI230247	c, v, General	selenoprotein P, plasma, 1	selenoprotein P, plasma, 1
3166	4282	NM_012883	rr	selenoprotein P, plasma, 1, sulfotransferase, estrogen preferring, sulfotransferase, estrogen-preferring	selenoprotein P, plasma, 1, sulfotransferase, estrogen preferring, sulfotransferase, estrogen-preferring
3213	17894	NM_013027	v	selenoprotein W, 1, selenoprotein W, muscle 1	ESTs, Weakly similar to SELW MOUSE SELENOPROTEIN W [M.musculus], selenoprotein W, 1, selenoprotein W, muscle 1
3017	21399	M36410	General	sepiapterin reductase, sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)	ESTs, Highly similar to A36024 sepiapterin reductase (EC 1.1.1.153) - rat [R.norvegicus], sepiapterin reductase, sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)
3017	21400	M36410	n, x, General, dd, ee	sepiapterin reductase, sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)	ESTs, Highly similar to A36024 sepiapterin reductase (EC 1.1.1.153) - rat [R.norvegicus], sepiapterin reductase, sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)
3585	25681	NM_022519	r	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	
3585	4212	NM_022519	e	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	
3585	4213	NM_022519	ee	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	
1753	16058	AI071490	General, vv	serine palmitoyltransferase, long chain base subunit 2	serine palmitoyltransferase, long chain base subunit 2
3450	19241	NM_019206	l, y, General, qq	serine/threonine kinase 10	Homo sapiens CTCL tumor antigen se20-9 mRNA, complete cds, Ste20-related serine/threonine kinase, serine/threonine kinase 10

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3456	20433	NM_019232	tt, xx	serum/glucocorticoid regulated kinase	EST, Weakly similar to SGK_RAT Serine/threonine-protein kinase Sgk (Serum/glucocorticoid-regulated kinase) [R.norvegicus], Mus musculus, hypothetical protein MGC11287 similar to ribosomal protein S6 kinase, clone MGC:38756 IMAGE:5358742, mRNA, complete cds, RIKEN cDNA 1190006F07 gene, serine/threonine protein kinase CISK, serum/glucocorticoid regulated kinase, serum/glucocorticoid regulated kinase 2, serum/glucocorticoid regulated kinase-like
3902	2655	NM_031821	l, kk, nn, tt	serum-inducible kinase	ESTs, Highly similar to SNK_RAT Serine/threonine-protein kinase SNK (Serum inducible kinase) [R.norvegicus], ESTs, Weakly similar to SNK MOUSE SERINE/THREONINE-PROTEIN KINASE SNK [M.musculus], ESTs, Weakly similar to SNK_RAT Serine/threonine-protein kinase SNK (Serum inducible kinase) [R.norvegicus], Homo sapiens cDNA FLJ30246 fis, clone BRACE2002202, weakly similar to SERINE/THREONINE- PROTEIN KINASE SNK (EC 2.7.1.-), NIMA (never in mitosis gene a)-related expressed kinase 1, NIMA (never in mitosis gene a)- related kinase 4, serum-inducible kinase
497	15342	AA875172	k	SH3-domain kinase binding protein 1	Arg/Abl-interacting protein ArgBP2, EST, Weakly similar to JC5583 85K SH3 domain- containing proline-rich protein - mouse [M.musculus], ESTs, Moderately similar to Arg/Abl-interacting protein ArgBP2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to JC5583 85K SH3 domain- containing proline-rich protein - mouse [M.musculus], RIKEN cDNA 2010203Q03 gene, Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6, SH3-domain kinase binding protein 1, sorbin and SH3 domain containing 1
3214	1734	NM_013028	oo	short stature homeobox 2	ES cell derived homeobox, short stature homeobox, short stature homeobox 2
3872	3548	NM_031723	u, ww	signal peptidase complex (18kD)	
3872	3549	NM_031723	r, tt	signal peptidase complex (18kD)	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3358	9124	NM_017199	j, ii	signal sequence receptor, delta, signal sequence receptor, delta (translocon-associated protein delta)	EST, Moderately similar to SSRD_RAT TRANSLOCON-ASSOCIATED PROTEIN, DELTA SUBUNIT PRECURSOR (TRAP-DELTA) (SIGNAL SEQUENCE RECEPTOR DELTA SUBUNIT) (SSR-DELTA) [R.norvegicus], EST, Weakly similar to SSRD_HUMAN TRANSLOCON-ASSOCIATED PROTEIN, DELTA SUBUNIT PRECURSOR [H.sapiens], Mus musculus, clone IMAGE:4038523, mRNA, partial cds, signal sequence receptor, delta, signal sequence receptor, delta (translocon-associated protein delta)
3358	9125	NM_017199	u, dd, ii, ll	signal sequence receptor, delta, signal sequence receptor, delta (translocon-associated protein delta)	EST, Moderately similar to SSRD_RAT TRANSLOCON-ASSOCIATED PROTEIN, DELTA SUBUNIT PRECURSOR (TRAP-DELTA) (SIGNAL SEQUENCE RECEPTOR DELTA SUBUNIT) (SSR-DELTA) [R.norvegicus], EST, Weakly similar to SSRD_HUMAN TRANSLOCON-ASSOCIATED PROTEIN, DELTA SUBUNIT PRECURSOR [H.sapiens], Mus musculus, clone IMAGE:4038523, mRNA, partial cds, signal sequence receptor, delta, signal sequence receptor, delta (translocon-associated protein delta)
3358	9126	NM_017199	g	signal sequence receptor, delta, signal sequence receptor, delta (translocon-associated protein delta)	EST, Moderately similar to SSRD_RAT TRANSLOCON-ASSOCIATED PROTEIN, DELTA SUBUNIT PRECURSOR (TRAP-DELTA) (SIGNAL SEQUENCE RECEPTOR DELTA SUBUNIT) (SSR-DELTA) [R.norvegicus], EST, Weakly similar to SSRD_HUMAN TRANSLOCON-ASSOCIATED PROTEIN, DELTA SUBUNIT PRECURSOR [H.sapiens], Mus musculus, clone IMAGE:4038523, mRNA, partial cds, signal sequence receptor, delta, signal sequence receptor, delta (translocon-associated protein delta)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1241	3081	AA999171	General	signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD	expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 2, signal transducer and activator of transcription 2, 113kD, signal transducer and activator of transcription 4
3558	1914	NM_022380	g	signal transducer and activator of transcription 5B	signal transducer and activator of transcription 5B, signal transducer and activator of transcription 6, interleukin-4 induced
3641	15727	NM_022953	g	slit homolog 1 (Drosophila)	EST, Highly similar to T42626 secreted leucine-rich repeat-containing protein SLIT2 mouse (fragment) [M.musculus], ESTs, Weakly similar to hypothetical protein MGC7599; clone MGC:7599 [Mus musculus] [M.musculus], ESTs, Weakly similar to integral membrane glycoprotein [Mus musculus] [M.musculus], ESTs, Weakly similar to ALS MOUSE INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN COMPLEX ACID LABILE CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to JG0193 G protein-coupled receptor FEX - mouse [M.musculus], ESTs, Weakly similar to Slit-1 protein [H.sapiens], Mus musculus, Similar to leucine-rich repeat containing 3, clone MGC:30505 IMAGE:4481142, mRNA, complete cds, RIKEN cDNA 9530074E10 gene, slit homolog 1 (Drosophila), slit homolog 2 (Drosophila), slit homolog 3 (Drosophila)
3802	20448	NM_031530	vv	small inducible cytokine A2, small inducible cytokine A2 (monocyte chemotactic protein 1)	EST, Weakly similar to S07723 immediate-early serum-responsive protein JE precursor - rat [R.norvegicus], expressed sequence AI323594, small inducible cytokine A2, small inducible cytokine A24, small inducible cytokine subfamily A (Cys-Cys), member 24
3802	20449	NM_031530	vv	small inducible cytokine A2, small inducible cytokine A2 (monocyte chemotactic protein 1)	EST, Weakly similar to S07723 immediate-early serum-responsive protein JE precursor - rat [R.norvegicus], expressed sequence AI323594, small inducible cytokine A2, small inducible cytokine A24, small inducible cytokine subfamily A (Cys-Cys), member 24
3211	208	NM_013025	vv	small inducible cytokine A3	



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3856	2327	NM_031683	II	SMC (structural maintenance of chromosomes 1)-like 1 (S. cerevisiae), SMC1 structural maintenance of chromosomes 1-like 1 (yeast)	ESTs, Weakly similar to segregation of mitotic chromosomes b; SMC (segregation of mitotic chromosomes 1)-like 1 (yeast) [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to I54383 chromosome segregation protein smc1 [H.sapiens], RIKEN cDNA C030018L16 gene, SMC (structural maintenance of chromosomes 1)-like 2 (S. cerevisiae), SMC (structural maintenance of chromosomes 1)-like 1 (S. cerevisiae), SMC1 structural maintenance of chromosomes 1-like 1 (yeast), SMC4 structural maintenance of chromosomes 4-like 1 (yeast)
3759	1579	NM_031117	c, oo, ww	SNRPN upstream reading frame	RIKEN cDNA 2410045I01 gene, SNRPN upstream reading frame, small nuclear ribonucleoprotein B, small nuclear ribonucleoprotein N, small nuclear ribonucleoprotein polypeptide N, small nuclear ribonucleoprotein polypeptides B and B1
3397	20579	NM_017288	u	sodium channel, voltage-gated, type I, beta polypeptide	Mus musculus brain and heart sodium channel beta 3 subunit mRNA, complete cds, sodium channel beta 3 subunit, sodium channel, voltage-gated, type I, beta polypeptide
3265	24490	NM_013178	s, cc	sodium channel, voltage-gated, type IV, alpha polypeptide	EST, Highly similar to CIN4_RAT Sodium channel protein, skeletal muscle alpha-subunit (MU-1) [R.norvegicus], ESTs, Highly similar to voltage gated Na channel Scn8a [M.musculus], ESTs, Moderately similar to voltage gated Na channel Scn8a [M.musculus], Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230108N10:sodium channel, voltage-gated, type II, alpha polypeptide, full insert sequence, sodium channel, voltage-gated, type IV, alpha polypeptide, sodium channel, voltage-gated, type VI, alpha polypeptide
3471	15763	NM_019265	k	sodium channel, voltage-gated, type XI, alpha polypeptide	RIKEN cDNA 4921522D01 gene, sodium channel, voltage-gated, type XI, alpha polypeptide, sodium channel, voltage-gated, type XII, alpha polypeptide

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2978	21146	L35558	gg, hh	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute carrier family 1, member 1	ESTs, Weakly similar to EAA3_RAT Excitatory amino acid transporter 3 (Sodium-dependent glutamate/aspartate transporter 3) (Excitatory amino-acid carrier 1) [R.norvegicus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4931413K05:solute carrier family 1, member 1, full insert sequence, Rattus norvegicus mRNA for sodium-dependent neutral amino acid transporter, ASCT2, solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute carrier family 1, member 1, solute carrier family 1, member 7
3896	2114	NM_031798	u, kk	solute carrier family 12 (sodium/potassium/chloride transporters), member 2, solute carrier family 12, member 2	Mus musculus strain ILS K-CI cotransporter (Slc12a5) mRNA, complete cds, cation-chloride cotransporter 6, cation-chloride cotransporter 9, cation-chloride cotransporter-interacting protein 1, solute carrier family 12 (sodium/potassium/chloride transporters), member 2, solute carrier family 12, member 2
3485	235	NM_019347	ii	solute carrier family 14 (urea transporter), member 2	solute carrier family 14 (urea transporter), member 2
3851	24881	NM_031663	pp	solute carrier family 18 (vesicular acetylcholine), member 3, solute carrier family 18 (vesicular monoamine), member 3	Mus musculus, Similar to solute carrier family 18 (vesicular monoamine), member 1, clone MGC:28683 IMAGE:4239930, mRNA, complete cds, solute carrier family 18 (vesicular acetylcholine), member 3, solute carrier family 18 (vesicular monoamine), member 3
4240	16248	NM_138827	t, mm	solute carrier family 2 (facilitated glucose transporter), member 1	Mus musculus, clone MGC:8298 IMAGE:3593581, mRNA, complete cds, solute carrier family 2 (facilitated glucose transporter), member 1
4240	16249	NM_138827	p, ff	solute carrier family 2 (facilitated glucose transporter), member 1	Mus musculus, clone MGC:8298 IMAGE:3593581, mRNA, complete cds, solute carrier family 2 (facilitated glucose transporter), member 1
4240	16250	NM_138827	mm	solute carrier family 2 (facilitated glucose transporter), member 1	Mus musculus, clone MGC:8298 IMAGE:3593581, mRNA, complete cds, solute carrier family 2 (facilitated glucose transporter), member 1
4240	16251	NM_138827	mm	solute carrier family 2 (facilitated glucose transporter), member 1	Mus musculus, clone MGC:8298 IMAGE:3593581, mRNA, complete cds, solute carrier family 2 (facilitated glucose transporter), member 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3165	15872	NM_012879	bb	solute carrier family 2 (facilitated glucose transporter), member 2	ESTs, Weakly similar to solute carrier family 2 (facilitated glucose transporter), member 2; liver-type glucose transporter [Mus musculus] [M.musculus], solute carrier family 2 (facilitated glucose transporter), member 2
3472	23625	NM_019269	o	solute carrier family 22 (organic cation transporter), member 5	ESTs, Weakly similar to solute carrier family 22 (organic cation transporter), member 5; Lstp-like [Mus musculus] [M.musculus], ESTs, Weakly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], Homo sapiens OAT4L mRNA for organic anion transporter 4 like protein, complete cds, Mus musculus, Similar to solute carrier family 22 (organic cation transporter)-like 2, clone MGC:25980 IMAGE:4242162, mRNA, complete cds, RIKEN cDNA 4921504E14 gene, expressed sequence A1987855, solute carrier family 22 (organic anion/cation transporter), member 11, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22 (organic cation transporter), member 9
4272	17549	NM_139100	m, ee	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 3, solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3	RIKEN cDNA 3632410G24 gene, RIKEN cDNA 5730438N18 gene, expressed sequence W51672, solute carrier family 25 (mitochondrial carrier, brain), member 14, solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 3, solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11, solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3
3874	17554	NM_031736	o, vv	solute carrier family 27 (fatty acid transporter), member 2	EST, Weakly similar to VLCS_HUMAN VERY-LONG-CHAIN ACYL-COA SYNTHETASE [H.sapiens], ESTs, Weakly similar to solute carrier family 27 (fatty acid transporter), member 2 [Rattus norvegicus] [R.norvegicus], Homo sapiens cDNA FLJ23784 fis, clone HEP21238, VLCS-H1 protein, fatty-acid-Coenzyme A ligase, very long-chain 1, hypothetical protein MGC4365, solute carrier family 27 (fatty acid transporter), member 2, solute carrier family 27 (fatty acid transporter), member 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3857	20743	NM_031684	dd	solute carrier family 29 (nucleoside transporters), member 1	ESTs, Weakly similar to solute carrier family 29 (nucleoside transporters), member 1 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 4933435C21 gene, solute carrier family 29 (nucleoside transporters), member 1
3476	20734	NM_019283	q, z, General, jj	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
3476	20735	NM_019283	l, i, q, z, General	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
3627	180	NM_022853	s	solute carrier family 30 (zinc transporter), member 1	
3215	18078	NM_013030	r	solute carrier family 34 (sodium phosphate), member 1	Rattus norvegicus mRNA for Na <sup>+</sup> /Pi-cotransporter type IIc, complete cds, Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, Solute carrier family 17 (sodium/hydrogen exchanger), member 2, expressed sequence AI649385, solute carrier family 34 (sodium phosphate), member 1
455	16333	AA866414	k	solute carrier family 4 (anion exchanger), member 1, solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	ESTs, Moderately similar to B3AT MOUSE BAND 3 ANION EXCHANGE PROTEIN [M.musculus], expressed sequence AI503023, solute carrier family 4 (anion exchanger), member 1, solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)
3303	24697	NM_017048	rr	solute carrier family 4 (anion exchanger), member 2, solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane protein band 3-like 1)	solute carrier family 4 (anion exchanger), member 2, solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane protein band 3-like 1)

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3216	313	NM_013033	g	solute carrier family 5 (sodium/glucose cotransporter), member 1, solute carrier family 5, member 1	Mus musculus, Similar to solute carrier family 5 (sodium/glucose cotransporter), member 1, clone MGC:29197 IMAGE:5012356, mRNA, complete cds, RIKEN cDNA 2010013B02 gene, RIKEN cDNA 2010104G07 gene, low affinity sodium-dependent glucose cotransporter, solute carrier family 5 (sodium/glucose cotransporter), member 1, solute carrier family 5, member 1, solute carrier family 5, member 3, solute carrier family 5, member 4a
3242	24195	NM_013111	f, q	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	KIAA1613 protein, Mus musculus, clone MGC:27672 IMAGE:4911158, mRNA, complete cds, expressed sequence AU018091, solute carrier family 7 (cationic amino acid transporter, y+ system), member 1, solute carrier family 7 (cationic amino acid transporter, y+ system), member 3
3242	24196	NM_013111	f, l, q, z, General, dd	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	KIAA1613 protein, Mus musculus, clone MGC:27672 IMAGE:4911158, mRNA, complete cds, expressed sequence AU018091, solute carrier family 7 (cationic amino acid transporter, y+ system), member 1, solute carrier family 7 (cationic amino acid transporter, y+ system), member 3
4385	25608	U53927	t, ff	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	ESTs, Weakly similar to cationic amino acid transporter-2A [Rattus norvegicus] [R.norvegicus], solute carrier family 7 (cationic amino acid transporter, y+ system), member 2
1961	17171	AI105137	oo, rr	somatostatin	EST, Moderately similar to GTK1_RAT Glutathione S-transferase, mitochondrial (GST 13-13) (Glutathione S-transferase subunit 13) (GST class-kappa) [R.norvegicus], EST, Weakly similar to GTK1_HUMAN GLUTATHIONE S-TRANSFERASE, MITOCHONDRIAL (GST 13-13) (GLUTATHIONE S-TRANSFERASE SUBUNIT 13) (GST CLASS-KAPPA) (HDCMD47P) [H.sapiens], RIKEN cDNA 0610025I19 gene, glutathione S-transferase subunit 13 homolog, somatostatin
3217	24809	NM_013036	g	somatostatin receptor 4	Mus musculus urotensin II receptor mRNA, complete cds, somatostatin receptor 4

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3305	1877	NM_017052	w	sorbitol dehydrogenase, sorbitol dehydrogenase 1	ESTs, Highly similar to A54674 L-iditol 2-dehydrogenase [H.sapiens], sorbitol dehydrogenase, sorbitol dehydrogenase 1
1667	10138	AI059048	m	Sp3 transcription factor	Sp3 transcription factor
3331	16681	NM_017136	r, w, jj	squalene epoxidase	Homo sapiens cDNA FLJ30795 fis, clone FEBRA2001124, squalene epoxidase
3331	16682	NM_017136	t, mm	squalene epoxidase	Homo sapiens cDNA FLJ30795 fis, clone FEBRA2001124, squalene epoxidase
3827	14542	NM_031596	u	squamous cell carcinoma antigen recognised by T cells, squamous cell carcinoma antigen recognized by T-cells 1	
3827	14543	NM_031596	jj	squamous cell carcinoma antigen recognised by T cells, squamous cell carcinoma antigen recognized by T-cells 1	
1247	25149	AB009246	gg, hh	stem cell growth factor, stem cell growth factor; lymphocyte secreted C-type lectin	
2946	20429	J05035	t, xx	steroid 5 alpha-reductase 1, steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	RIKEN cDNA 4930435F02 gene, steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
2946	20430	J05035	bb, qq	steroid 5 alpha-reductase 1, steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	RIKEN cDNA 4930435F02 gene, steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
4351	20431	S81448	qq, xx	steroid 5 alpha-reductase 1, steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	RIKEN cDNA 4930435F02 gene, steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
4228	16179	NM_138508	xx	sterol carrier protein 2, sterol carrier protein 2, liver	EST, Weakly similar to NLTP_HUMAN NONSPECIFIC LIPID-TRANSFER PROTEIN PRECURSOR [H.sapiens], sterol carrier protein 2, sterol carrier protein 2, liver
4228	16180	NM_138508	h, l, General, dd, jj, oo	sterol carrier protein 2, sterol carrier protein 2, liver	EST, Weakly similar to NLTP_HUMAN NONSPECIFIC LIPID-TRANSFER PROTEIN PRECURSOR [H.sapiens], sterol carrier protein 2, sterol carrier protein 2, liver
4139	25799	NM_080886	a, f, n, x, cc, ff, jj, uu	sterol-C4-methyl oxidase-like	cholesterol 25-hydroxylase, chromosome 5 open reading frame 4, sterol-C4-methyl oxidase-like

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4139	21842	NM_080886	a, f, jj, pp	sterol-C4-methyl oxidase-like	cholesterol 25-hydroxylase, chromosome 5 open reading frame 4, sterol-C4-methyl oxidase-like
3473	1412	NM_019271	ww	stress 70 protein chaperone, microsome-associated, 60kD, stress 70 protein chaperone, microsome-associated, 60kD human homolog	RIKEN cDNA 4933409K03 gene, stress 70 protein chaperone, microsome-associated, 60kD
2960	17508	L08814	e, gg, hh, oo	structure specific recognition protein 1	ESTs, Weakly similar to S35637 high mobility group 1 protein homolog - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:4948318, mRNA, partial cds, Mus musculus, clone IMAGE:5355658, mRNA, structure specific recognition protein 1
886	17513	AA925554	h, u	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
4153	17512	NM_130428	w	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
4042	18174	NM_053752	o	succinate-CoA ligase, GDP-forming, alpha subunit	
3904	4748	NM_031834	k, cc, vv	sulfotransferase family 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1	Aryl sulfotransferase cytosolic, 1A, phenol-preferring, member 3, RIKEN cDNA 1110030E23 gene, sulfotransferase family 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2
3904	4749	NM_031834	b, k, l, ii	sulfotransferase family 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1	Aryl sulfotransferase cytosolic, 1A, phenol-preferring, member 3, RIKEN cDNA 1110030E23 gene, sulfotransferase family 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2
3166	16301	NM_012883	g, w, rr	sulfotransferase, estrogen preferring, sulfotransferase, estrogen-preferring	sulfotransferase, estrogen preferring, sulfotransferase, estrogen-preferring
3304	20876	NM_017050	k, tt	superoxide dismutase 1, soluble, superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult))	EST, Weakly similar to SODC MOUSE. SUPEROXIDE DISMUTASE [M.musculus], superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult))
2724	21414	AI235842	x	superoxide dismutase 2, mitochondrial	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3636	18098	NM_022947	oo	suppressor of K <sup>+</sup> transport defect 3, suppressor of potassium transport defect 3	
3589	4601	NM_022524	g	sushi-repeat-containing protein, sushi-repeat-containing protein, X chromosome	ESTs, Weakly similar to down-regulated by v-src gene [Rattus norvegicus] [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp586N2022 (from clone DKFZp586N2022), RIKEN cDNA 1110039C07 gene, RIKEN cDNA 2610001E17 gene, sushi-repeat protein, sushi-repeat-containing protein, sushi-repeat-containing protein X chromosome
3428	24785	NM_019133	n	synapsin I	EST, Weakly similar to A35363 synapsin I splice form a [H.sapiens], ESTs, Weakly similar to A30411 synapsin Ia - rat [R.norvegicus], ESTs, Weakly similar to IRX2_HUMAN IROQUOIS-CLASS HOMEODOMAIN PROTEIN IRX-2 [H.sapiens], ESTs, Weakly similar to SYN1 MOUSE SYNAPSIN I [M.musculus], Mus musculus, clone IMAGE:3992752, mRNA, partial cds, PRO0149 protein, RIKEN cDNA 1810026J23 gene, RIKEN cDNA 4933428P19 gene, RIKEN cDNA 5830475F03 gene, guanine nucleotide binding protein (G protein), beta polypeptide 1-like, haspin, hypothetical protein BC007540, hypothetical protein BC011833, synapsin I
3439	1608	NM_019166	e	synaptogyrin 1	ESTs, Moderately similar to SNG1_RAT SYNAPTOGYRIN 1 (P29) [R.norvegicus], synaptogyrin 1, synaptogyrin 3, synaptogyrin 4
3487	1389	NM_019350	g	synaptotagmin 5, synaptotagmin V	NADPH oxidase-related, C2 domain-containing protein, synaptotagmin 12, synaptotagmin 5, synaptotagmin V, synaptotagmin XII
3212	1588	NM_013026	j, t, mm, ww	syndecan 1	syndecan 1
3212	1589	NM_013026	mm	syndecan 1	syndecan 1
3864	25652	NM_031704	q	syntaxin 5A	ESTs, Moderately similar to syntaxin 5a [Rattus norvegicus] [R.norvegicus], syntaxin 5A
3864	20718	NM_031704	n	syntaxin 5A	ESTs, Moderately similar to syntaxin 5a [Rattus norvegicus] [R.norvegicus], syntaxin 5A
3864	20719	NM_031704	b, q, y, dd	syntaxin 5A	ESTs, Moderately similar to syntaxin 5a [Rattus norvegicus] [R.norvegicus], syntaxin 5A
3848	9427	NM_031656	c, kk	syntaxin 8	



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3848	9428	NM_031656	p	syntaxin 8	
3440	7489	NM_019169	g	synuclein, alpha, synuclein, alpha (non A4 component of amyloid precursor)	synuclein, alpha, synuclein, alpha (non A4 component of amyloid precursor)
435	23324	AA859980	a, c, d, jj	t-complex 1, t-complex protein 1	EST, Moderately similar to S10486 t-complex-type molecular chaperone TCP1 [H.sapiens], ESTs, Weakly similar to JQ0866 T-complex protein 1 - rat [R.norvegicus], chaperonin containing TCP1, subunit 7 (eta), chaperonin subunit 7 (eta), t-complex protein 1
435	18578	AA859980	a, c, q, jj, ss	t-complex 1, t-complex protein 1	EST, Moderately similar to S10486 t-complex-type molecular chaperone TCP1 [H.sapiens], ESTs, Weakly similar to JQ0866 T-complex protein 1 - rat [R.norvegicus], chaperonin containing TCP1, subunit 7 (eta), chaperonin subunit 7 (eta), t-complex protein 1
2939	26368	H34047	jj	t-complex 1, t-complex protein 1	EST, Moderately similar to S10486 t-complex-type molecular chaperone TCP1 [H.sapiens], ESTs, Weakly similar to JQ0866 T-complex protein 1 - rat [R.norvegicus], chaperonin containing TCP1, subunit 7 (eta), chaperonin subunit 7 (eta), t-complex protein 1
3105	21794	NM_012670	g, m, s	t-complex 1, t-complex protein 1	EST, Moderately similar to S10486 t-complex-type molecular chaperone TCP1 [H.sapiens], ESTs, Weakly similar to JQ0866 T-complex protein 1 - rat [R.norvegicus], chaperonin containing TCP1, subunit 7 (eta), chaperonin subunit 7 (eta), t-complex protein 1
3780	15661	NM_031318	a, b, m, uu, vv	t-complex testis expressed 1, t-complex-associated-testis-expressed 1-like 1	Homo sapiens, Similar to RIKEN cDNA 0610012D17 gene, clone MGC:33212 IMAGE:4830500, mRNA, complete cds, RIKEN cDNA 2310075M16 gene, t-complex testis expressed 1, t-complex-associated-testis-expressed 1-like, t-complex-associated-testis-expressed 1-like 1
3780	15662	NM_031318	m, General	t-complex testis expressed 1, t-complex-associated-testis-expressed 1-like 1	Homo sapiens, Similar to RIKEN cDNA 0610012D17 gene, clone MGC:33212 IMAGE:4830500, mRNA, complete cds, RIKEN cDNA 2310075M16 gene, t-complex testis expressed 1, t-complex-associated-testis-expressed 1-like, t-complex-associated-testis-expressed 1-like 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3780	15663	NM_031318	m	t-complex testis expressed 1, t-complex-associated-testis-expressed 1-like 1	Homo sapiens, Similar to RIKEN cDNA 0610012D17 gene, clone MGC:33212 IMAGE:4830500, mRNA, complete cds, RIKEN cDNA 2310075M16 gene, t-complex testis expressed 1, t-complex-associated-testis-expressed 1-like, t-complex-associated-testis-expressed 1-like 1
4367	25593	U26310	k	tensin	
3500	24626	NM_019381	h, x, General	testis enhanced gene transcript, testis enhanced gene transcript (BAX inhibitor 1)	RIKEN cDNA 2900002L20 gene, RIKEN cDNA 4930500J03 gene, RIKEN cDNA 5031406P05 gene, testis enhanced gene transcript (BAX inhibitor 1)
3024	24253	M61142	s	thimet oligopeptidase 1	thimet oligopeptidase 1
3835	24235	NM_031614	uu	thioredoxin reductase 1	thioredoxin reductase 1, thioredoxin reductase 2
3935	17474	NM_032614	u	thioredoxin-like 2	thioredoxin-like 2
735	12031	AA893860	General	threonyl-tRNA synthetase	threonyl-tRNA synthetase
3111	5850	NM_012687	g	thromboxane A synthase 1 (platelet, cytochrome P450, subfamily V), thromboxane A synthase 1, platelet.	thromboxane A synthase 1 (platelet, cytochrome P450, subfamily V), thromboxane A synthase 1, platelet
3106	17117	NM_012673	w	Thy-1 cell surface antigen, thymus cell antigen 1, theta	Thy-1 cell surface antigen, thymus cell antigen 1, theta
3167	16870	NM_012887	v	thymopoietin	ESTs, Highly similar to THPA_HUMAN THYMOPOIETIN ALPHA [H.sapiens], RIKEN cDNA 5630400D24 gene, thymopoietin
3167	16871	NM_012887	r, z, ee, oo	thymopoietin	ESTs, Highly similar to THPA_HUMAN THYMOPOIETIN ALPHA [H.sapiens], RIKEN cDNA 5630400D24 gene, thymopoietin
3167	16872	NM_012887	pp	thymopoietin	ESTs, Highly similar to THPA_HUMAN THYMOPOIETIN ALPHA [H.sapiens], RIKEN cDNA 5630400D24 gene, thymopoietin
3515	20816	NM_021261	e, ii, ll	thymosin, beta 10	
3539	243	NM_021989	ii, rr	tissue inhibitor of metalloproteinase 2	Homo sapiens mRNA; cDNA DKFZp761A0617 (from clone DKFZp761A0617), tissue inhibitor of metalloproteinase 2
2306	17235	AI176815	n	tissue inhibitor of metalloproteinase 3, tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	tissue inhibitor of metalloproteinase 3, tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3220	2667	NM_013048	b, h, uu	tocopherol (alpha) transfer protein, tocopherol (alpha) transfer protein (ataxia (Friedreich-like) with vitamin E deficiency)	
3544	23782	NM_022183	xx	topoisomerase (DNA) II alpha, topoisomerase (DNA) II alpha (170kD)	ESTs, Moderately similar to A40493 DNA topoisomerase [H.sapiens], ESTs, Weakly similar to topoisomerase (DNA) II alpha [Rattus norvegicus] [R.norvegicus], topoisomerase (DNA) II alpha, topoisomerase (DNA) II beta
3104	24427	NM_012669	pp	transcription factor 1, transcription factor 1, hepatic; LF-B1, hepatic nuclear factor (HNF1), albumin proximal factor	Homo sapiens, Similar to hypothetical protein FLJ21616, clone MGC:14941 IMAGE:3947903, mRNA, complete cds, Mus musculus, clone IMAGE:3490304, mRNA, partial cds, hypothetical protein FLJ21616, transcription factor 1, transcription factor 1, hepatic; LF-B1, hepatic nuclear factor (HNF1), albumin proximal factor
3240	1885	NM_013103	l, u, z	transcription factor 2, transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor	transcription factor 2, transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor
3968	623	NM_053369	jj	transcription factor 4	EST, Highly similar to TRANSCRIPTION FACTOR 4 [M.musculus], transcription factor 4
2959	24425	L08812	k	transcription factor EC	expressed sequence A1851540, microphthalmia-associated transcription factor, transcription factor EC
3025	19823	M61725	oo	transcription factor UBF, upstream binding transcription factor, RNA polymerase I	
123	18115	AA800339	d, General, ee, kk	transferrin	ESTs, Weakly similar to TRFL MOUSE LACTOTRANSFERRIN PRECURSOR [M.musculus], RIKEN cDNA 1300017J02 gene, Rattus norvegicus Nclone10 mRNA, transferrin
3699	17377	NM_030989	jj	transformation related protein 53, tumor protein p53 (Li-Fraumeni syndrome)	transformation related protein 73, tumor protein p53 (Li-Fraumeni syndrome)
3110	4185	NM_012681	ee, gg, hh	transthyretin, transthyretin (prealbumin, amyloidosis type I)	expressed sequence AA408768, transthyretin, transthyretin (prealbumin, amyloidosis type I)
3110	4186	NM_012681	n, ee	transthyretin, transthyretin (prealbumin, amyloidosis type I)	expressed sequence AA408768, transthyretin, transthyretin (prealbumin, amyloidosis type I)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1938	18277	AI104399	t	triosephosphate isomerase, triosephosphate isomerase 1	EST, Highly similar to TPIS MOUSE TRIOSEPHOSPHATE ISOMERASE [M.musculus], ESTs, Highly similar to TPIS_HUMAN TRIOSEPHOSPHATE ISOMERASE [H.sapiens], Rattus norvegicus resection-induced TPI (rs11) mRNA, complete cds, triosephosphate isomerase, triosephosphate isomerase 1
3023	457	M60666	c, nn	tropomyosin 1 (alpha), tropomyosin 1, alpha	Homo sapiens cDNA FLJ30635 fis, clone CTONG2002520, expressed sequence AI854628, expressed sequence C76867, tropomyosin 4, tuftelin 1
3427	455	NM_019131	k, bb, ll, mm, nn	tropomyosin 1 (alpha), tropomyosin 1, alpha	Homo sapiens cDNA FLJ30635 fis, clone CTONG2002520, expressed sequence AI854628, expressed sequence C76867, tropomyosin 4, tuftelin 1
3336	20859	NM_017144	cc	troponin I, cardiac	
3569	402	NM_022403	c, l, vv, xx	tryptophan 2,3-dioxygenase	tryptophan 2,3-dioxygenase
4072	17728	NM_053867	n, ee	tumor protein, translationally-controlled 1	EST, Moderately similar to S06590 IgE-dependent histamine-releasing factor [H.sapiens], EST, Weakly similar to TCTP MOUSE TRANSLATIONALLY CONTROLLED TUMOR PROTEIN [M.musculus], ESTs, Highly similar to S06590 IgE-dependent histamine-releasing factor [H.sapiens], ESTs, Moderately similar to TCTP_MOUSE Translationally controlled tumor protein (TCTP) (p23) (21 kDa polypeptide) (p21) (Lens epithelial protein) [R.norvegicus], Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 926491, apoptosis inhibitor, tumor protein, translationally-controlled 1
3829	19344	NM_031603	ee	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	ESTs, Highly similar to I38947 14-3-3 protein epsilon isoform [H.sapiens], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide
3222	16683	NM_013052	r	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	ESTs, Highly similar to 143F MOUSE 14-3-3 PROTEIN ETA [M.musculus], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title	
3222	16684	NM_013052	pp	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	ESTs, Highly similar to 143F MOUSE 14-3-3 PROTEIN ETA [M.musculus], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	
3208	25279	NM_013011	bb	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	ESTs, Highly similar to A Chain A, 14-3-3 ZetaPHOSPHOPEPTIDE COMPLEX [H.sapiens], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	
3208	3405	NM_013011	ss	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	ESTs, Highly similar to A Chain A, 14-3-3 ZetaPHOSPHOPEPTIDE COMPLEX [H.sapiens], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	
3103	24825	NM_012668	x, ee, ss	tyrosine aminotransferase	ESTs, Highly similar to S60718 tat protein [H.sapiens], Homo sapiens, Similar to tyrosine aminotransferase, clone MGC:22474 IMAGE:4710626, mRNA, complete cds; Mus musculus, Similar to Tyrosine aminotransferase, clone MGC:37790 IMAGE:5097591, mRNA, complete cds, tyrosine aminotransferase	
4041	15376	NM_053747	x, General, kk	ubiquilin 1	ESTs, Highly similar to ataxin-1 ubiquitin-like interacting protein; A1U protein; chromosome 1 open reading frame 6 [Homo sapiens] [H.sapiens], RIKEN cDNA 1110046H03 gene, ataxin-1 ubiquitin-like interacting protein, ubiquilin 1, ubiquilin 2	
1305	22056	AI008066	p, mm	ubiquinol-cytochrome c reductase hinge protein	ubiquinol-cytochrome c reductase hinge protein	
1919	15050	AI103911	r	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	EST, Weakly similar to UCRI_HUMAN UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR [H.sapiens], ESTs, Moderately similar to UCRI_HUMAN UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR [H.sapiens], RIKEN cDNA 4430402G14 gene, ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3859	19727	NM_031687	h, ff	ubiquitin A-52 residue ribosomal protein fusion product 1	EST, Highly similar to S66575 ubiquitin / ribosomal protein CEP52 - rat (fragment) [R.norvegicus], EST, Moderately similar to ubiquitin A-52 residue ribosomal protein fusion product 1; ubiquitin/60S ribosomal fusion protein [Mus musculus] [M.musculus], ESTs, Moderately similar to ubiquitin A-52 residue ribosomal protein fusion product 1; ubiquitin/60S ribosomal fusion protein [Mus musculus] [M.musculus], ESTs, Weakly similar to UQHUR ubiquitin / ribosomal protein CEP52 [H.sapiens], Neural precursor cell expressed, developmentally down-regulated gene 8, Rattus norvegicus RSD-7 mRNA, complete cds, neural precursor cell expressed, developmentally down-regulated gene 8, ubiquitin A-52 residue ribosomal protein fusion product 1
3374	10427	NM_017237	bb	ubiquitin carboxy-terminal hydrolase L1, ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	EST, Highly similar to UBL1_RAT Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCH-L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic protein 9.5) (PGP 9.5) (PGP9.5) [R.norvegicus], ESTs, Highly similar to UBL1_MOUSE Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCH-L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic protein 9.5) (PGP 9.5) (PGP9.5) [M.musculus], Homo sapiens cDNA FLJ30687 fis, clone FCBBF2000379, ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase), ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)
3374	10429	NM_017237	cc	ubiquitin carboxy-terminal hydrolase L1, ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	EST, Highly similar to UBL1_RAT Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCH-L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic protein 9.5) (PGP 9.5) (PGP9.5) [R.norvegicus], ESTs, Highly similar to UBL1_MOUSE Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCH-L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic protein 9.5) (PGP 9.5) (PGP9.5) [M.musculus], Homo sapiens cDNA FLJ30687 fis, clone FCBBF2000379, ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase), ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title	
3221	12013	NM_013050	i, nn	ubiquitin-conjugating enzyme E2I, ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	RIKEN cDNA 5830467E05 gene, ubiquitin-conjugating enzyme E2I, ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	
3221	12014	NM_013050	i, j, y	ubiquitin-conjugating enzyme E2I, ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	RIKEN cDNA 5830467E05 gene, ubiquitin-conjugating enzyme E2I, ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	
4112	15124	NM_057105	jj	UDP glycosyltransferase 1 family, polypeptide A cluster, UDP glycosyltransferase 1 family, polypeptide A6, UDP-glucuronosyltransferase 1 family, member 1	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A8	
4112	15126	NM_057105	t, jj	UDP glycosyltransferase 1 family, polypeptide A cluster, UDP glycosyltransferase 1 family, polypeptide A6, UDP-glucuronosyltransferase 1 family, member 1	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A8	
4112	15127	NM_057105	k, t, General, mm	UDP glycosyltransferase 1 family, polypeptide A cluster, UDP glycosyltransferase 1 family, polypeptide A6, UDP-glucuronosyltransferase 1 family, member 1	UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1 family, polypeptide A8	
2894	15123	D38066	j, t, mm, xx	UDP glycosyltransferase 1 family, polypeptide A cluster, UDP-glucuronosyltransferase 1 family, member 1		
4112	5492	NM_057105	e	UDP glycosyltransferase 1 family, polypeptide A6	UDP glycosyltransferase 1 family, polypeptide A6	
4112	5493	NM_057105	e	UDP glycosyltransferase 1 family, polypeptide A6	UDP glycosyltransferase 1 family, polypeptide A6	
1890	11486	AI103162	j	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1		
1913	23829	AI103754	h	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 2	Mus musculus, Similar to xylosylprotein beta1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I), clone MGC:28643 IMAGE:4224150, mRNA, complete cds, UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1, UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 2	
2143	17027	AI170679	xx	UDP-glucose pyrophosphorylase 2	UDP-glucose pyrophosphorylase 2	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4044	7927	NM_053765	e, t	UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase	UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase
3261	24750	NM_013167	cc	uncoupling protein 3 (mitochondrial, proton carrier), uncoupling protein 3, mitochondrial	RIKEN cDNA 1810012H11 gene, RIKEN cDNA 3632410G24 gene, peroxisomal integral membrane protein, solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kD), member 17, uncoupling protein 3 (mitochondrial, proton carrier), uncoupling protein 3, mitochondrial
3365	317	NM_017218	h, General, bb, pp	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	ESTs, Weakly similar to A53183 epidermal growth factor receptor precursor - mouse [M.musculus], Homo sapiens clone R2 ErbB-3 R2 (c-erbB-3) mRNA, partial cds, Mus musculus, clone MGC:38648 IMAGE:5356166, mRNA, complete cds, v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
3498	20443	NM_019379	n, q, dd, oo	vesicle docking protein p115, vesicle docking protein, 115 kDa	vesicle docking protein p115, vesicle docking protein, 115 kDa
3102	16198	NM_012663	kk, tt	vesicle-associated membrane protein 2, vesicle-associated membrane protein 2 (synaptobrevin 2)	
3102	16199	NM_012663	bb, kk	vesicle-associated membrane protein 2, vesicle-associated membrane protein 2 (synaptobrevin 2)	
3102	16200	NM_012663	ii	vesicle-associated membrane protein 2, vesicle-associated membrane protein 2 (synaptobrevin 2)	
4107	23250	NM_057097	m	vesicle-associated membrane protein 3, vesicle-associated membrane protein 3 (cellubrevin)	ESTs, Weakly similar to vesicle-associated membrane protein 3 [Rattus norvegicus] [R.norvegicus], vesicle-associated membrane protein 3, vesicle-associated membrane protein 3 (cellubrevin), vesicle-associated membrane protein 4
3436	24362	NM_019156	a	vitronectin, vitronectin (serum spreading factor, somatomedin B, complement S-protein)	
3793	15608	NM_031355	n	voltage-dependent anion channel 3	voltage-dependent anion channel 3
3948	1423	NM_052801	mm	von Hippel-Lindau syndrome, von Hippel-Lindau syndrome homolog	von Hippel-Lindau syndrome, von Hippel-Lindau syndrome homolog



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3948	1424	NM_052801	ww	von Hippel-Lindau syndrome, von Hippel-Lindau syndrome homolog	von Hippel-Lindau syndrome, von Hippel-Lindau syndrome homolog
3098	20798	NM_012639	ll	v-raf-1 leukemia viral oncogene 1, v-raf-1 murine leukemia viral oncogene homolog 1	ESTs, Highly similar to B-raf oncogene [M.musculus], Mouse B-raf oncogene mRNA, complete cds, RIKEN cDNA 4921513O20 gene, v-raf murine sarcoma viral oncogene homolog B1, v-raf-1 leukemia viral oncogene 1, v-raf-1 murine leukemia viral oncogene homolog 1
3098	20799	NM_012639	p	v-raf-1 leukemia viral oncogene 1, v-raf-1 murine leukemia viral oncogene homolog 1	ESTs, Highly similar to B-raf oncogene [M.musculus], Mouse B-raf oncogene mRNA, complete cds, RIKEN cDNA 4921513O20 gene, v-raf murine sarcoma viral oncogene homolog B1, v-raf-1 leukemia viral oncogene 1, v-raf-1 murine leukemia viral oncogene homolog 1
3342	21975	NM_017154	l	xanthine dehydrogenase, xanthine dehydrogenase	
3836	1925	NM_031616	a, g	zinc finger protein 265	DNA segment, KIST 4, expressed sequence A1227013, zinc finger protein 265
3350	20919	NM_017172	v, nn	zinc finger protein 36, C3H type-like 1	ESTs; Weakly similar to S10471 cMG1 protein - rat [R.norvegicus], zinc finger protein 36, C3H type-like 1, zinc finger protein 36, C3H type-like 2
4165	25730	NM_133290	r, t	zinc finger protein 36, zinc finger protein 36, C3H type, homolog (mouse)	zinc finger protein 36, zinc finger protein 36, C3H type, homolog (mouse)
4213	8692	NM_134387	e		2,4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, 2,4-dienoyl-Coenzyme A reductase 2, peroxisomal, RIKEN cDNA 1810027P18 gene, putative peroxisomal 2,4-dienoyl-CoA reductase
3549	20299	NM_022220	j		24-dehydrocholesterol reductase, Mus musculus, clone MGC:29968 IMAGE:5123684, mRNA, complete cds
260	19451	AA819788	ll		28kD interferon responsive protein, RIKEN cDNA 5830458K16 gene
2868	23220	AJ000347	pp		3'(2'), 5'-bisphosphate nucleotidase 1, ESTs, Moderately similar to INPP MOUSE INOSITOL POLYPHOSPHATE 1-PHOSPHATASE [M.musculus], bisphosphate 3'-nucleotidase 1, hypothetical protein FLJ20421, inositol polyphosphate-1-phosphatase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2608	15582	A1232320	k, o, oo		3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2, 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial)
3013	15579	M33648	d, k, l, o, ff, oo, ss		3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2, 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial)
3013	15580	M33648	k, l, o, ff		3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2, 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial)
4101	17739	NM_053995	h, General, qq		3-hydroxybutyrate dehydrogenase (heart, mitochondrial), ESTs, Weakly similar to BDH_RAT D-beta-hydroxybutyrate dehydrogenase, mitochondrial precursor (BDH) (3-hydroxybutyrate dehydrogenase) [R.norvegicus], RIKEN cDNA 2310032J20 gene, retinol dehydrogenase 7, retinol dehydrogenase type 5
1476	21950	A1013861	h		3-hydroxyisobutyrate dehydrogenase, ESTs, Highly similar to D3H1_HUMAN 3-HYDROXYISOBUTYRATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR (HIBADH) [H.sapiens], RIKEN cDNA 3930401K13 gene
665	22537	AA892799	kk		3-phosphoglycerate dehydrogenase, EST, Moderately similar to SERA MOUSE D-3-PHOSPHOGLYCERATE DEHYDROGENASE [M.musculus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15:3-phosphoglycerate dehydrogenase, full insert sequence, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase
665	22538	AA892799	z		3-phosphoglycerate dehydrogenase, EST, Moderately similar to SERA MOUSE D-3-PHOSPHOGLYCERATE DEHYDROGENASE [M.musculus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15:3-phosphoglycerate dehydrogenase, full insert sequence, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
850	22540	AA924630	ff		3-phosphoglycerate dehydrogenase, EST, Moderately similar to SERA MOUSE D-3-PHOSPHOGLYCERATE DEHYDROGENASE [M.musculus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15:3-phosphoglycerate dehydrogenase, full insert sequence, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase
2591	22542	A1232066	ff		3-phosphoglycerate dehydrogenase, EST, Moderately similar to SERA MOUSE D-3-PHOSPHOGLYCERATE DEHYDROGENASE [M.musculus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15:3-phosphoglycerate dehydrogenase, full insert sequence, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase
3704	135	NM_031003	l, General		4-aminobutyrate aminotransferase, RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene, ornithine aminotransferase
2017	6552	A1137062	d		6.2 kd protein
3563	12082	NM_022389	jj		7-dehydrocholesterol reductase, expressed sequence A1505894
3563	12083	NM_022389	jj		7-dehydrocholesterol reductase, expressed sequence A1505894
3514	13485	NM_020306	d, bb		a disintegrin and metalloproteinase domain 17, a disintegrin and metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)
3514	13486	NM_020306	s		a disintegrin and metalloproteinase domain 17, a disintegrin and metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)
4032	15735	NM_053665	n, ee		A kinase (PRKA) anchor protein 1, tudor and KH domain-containing protein, tudor domain containing 1, tudor repeat associator with PCTAIRE 2
4032	15738	NM_053665	cc		A kinase (PRKA) anchor protein 1, tudor and KH domain-containing protein, tudor domain containing 1, tudor repeat associator with PCTAIRE 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4356	347	U01914	s, tt		A kinase (PRKA) anchor protein 8, ESTs, Weakly similar to A53414 A-kinase anchor protein 95, AKAP95 - rat [R.norvegicus], Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2610301A12:neighbor of A-kinase anchoring protein 95, full insert sequence, expressed sequence A1467606, neighbor of A-kinase anchoring protein 95, zinc finger protein 326
3434	17304	NM_019144	d, p, gg, hh		acid phosphatase 5, tartrate resistant
3410	17516	NM_017321	o, ii, jj, tt		aconitase 1, aconitase 1, soluble
3879	20724	NM_031753	w		activated leucocyte cell adhesion molecule, activated leucocyte cell adhesion molecule
1223	23648	AA998547	mm		AD-012 protein, ESTs, Highly similar to Y144_HUMAN HYPOTHETICAL PROTEIN KIAA0144 [H.sapiens], KIAA0144 gene product, KIAA1491 protein
775	4636	AA899491	m		adaptor-related protein complex 1, mu 1 subunit
4198	1271	NM_133593	e		adaptor-related protein complex 3, mu 1 subunit, adaptor-related protein complex AP-3, mu 1 subunit
3560	23980	NM_022383	w		adenylyl cyclase-associated CAP protein homolog 1 (S. cerevisiae, S. pombe), adenylyl cyclase-associated protein
4095	15325	NM_053979	j		ADP-ribosylation factor 1, ADP-ribosylation factor-like 5, EST, Weakly similar to ADP-ribosylation factor-like 5 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to ADP-RIBOSYLATION FACTOR 1 [M.musculus], Homo sapiens, similar to ADP ribosylation factor-like 5, clone MGC:22841 IMAGE:3931095, mRNA, complete cds, expressed sequence T25534.
3584	4145	NM_022518	j, ii		ADP-ribosylation factor 1, ADP-ribosylation-like 6, ESTs, Weakly similar to ADP-RIBOSYLATION FACTOR 1 [M.musculus], expressed sequence T25534
3584	4153	NM_022518	bb		ADP-ribosylation factor 1, ADP-ribosylation-like 6, ESTs, Weakly similar to ADP-RIBOSYLATION FACTOR 1 [M.musculus], expressed sequence T25534
3659	17517	NM_024151	q, u, dd		ADP-ribosylation factor 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3658	15367	NM_024149	r		ADP-ribosylation factor 5, ESTs, Moderately similar to ADP-RIBOSYLATION FACTOR 5 [M.musculus], ESTs, Weakly similar to A54022 ADP-ribosylation factor-like 1 - rat [R.norvegicus]
1895	8919	AI103388	dd, kk		ADP-ribosylation factor 6, ESTs, Moderately similar to S39543 GTP-binding protein - mouse [M.musculus], ESTs, Weakly similar to ARF6_HUMAN ADP-ribosylation factor 6 [R.norvegicus], GTP-binding protein Sara, RIKEN cDNA 2310075M17 gene, SAR1 protein, SAR1a gene homolog (S. cerevisiae), hypothetical protein FLJ22595
3660	21696	NM_024152	f, oo		ADP-ribosylation factor 6, ESTs, Weakly similar to ARF6_HUMAN ADP-RIBOSYLATION FACTOR 6 [M.musculus], ESTs, Weakly similar to ARF6_HUMAN ADP-ribosylation factor 6 [R.norvegicus], RIKEN cDNA 1110033P22 gene, RIKEN cDNA 2310075M17 gene, RIKEN cDNA 9130014L17 gene, SAR1 protein, SAR1a gene homolog (S. cerevisiae), hypothetical protein FLJ22595
732	17858	AA893741	c, d, oo		ADP-ribosylation factor GTPase activating protein 1, EST, Weakly similar to T46305 hypothetical protein DKFZp434D1411.1 [H.sapiens], ESTs, Highly similar to T46305 hypothetical protein DKFZp434D1411.1 [H.sapiens], zinc finger protein 289, ID1 regulated
1167	11928	AA996829	gg, hh		ADP-ribosylation factor GTPase activating protein 1, EST, Weakly similar to T46305 hypothetical protein DKFZp434D1411.1 [H.sapiens], ESTs, Highly similar to T46305 hypothetical protein DKFZp434D1411.1 [H.sapiens], zinc finger protein 289, ID1 regulated
501	15933	AA875253	q		ADP-ribosylation factor-like 1, ESTs, Weakly similar to A54022 ADP-ribosylation factor-like 1 - rat [R.norvegicus], RIKEN cDNA 2310008D22 gene
3561	15932	NM_022385	q, x, dd		ADP-ribosylation factor-like 1, ESTs, Weakly similar to A54022 ADP-ribosylation factor-like 1 - rat [R.norvegicus], RIKEN cDNA 2310008D22 gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2099	16879	AI169284	ww		ADP-ribosylation factor-like 6 interacting protein, ADP-ribosylation-like factor 6 interacting protein
4096	1292	NM_053980	m		ADP-ribosylation-like 3, ribosomal protein L35a
3227	1859	NM_013063	p, y, nn		ADP-ribosyltransferase (NAD <sup>+</sup> ; poly (ADP-ribose) polymerase), ADP-ribosyltransferase (NAD <sup>+</sup> ; poly (ADP-ribose) polymerase) 1, ADP-ribosyltransferase (NAD <sup>+</sup> ; poly (ADP-ribose) polymerase) 2, ADP-ribosyltransferase (NAD <sup>+</sup> ; poly (ADP-ribose) polymerase)-like 1, ADP-ribosyltransferase (NAD <sup>+</sup> ; poly (ADP-ribose) polymerase)-like 3, Mus musculus, clone MGC:11997 IMAGE:3602116, mRNA, complete cds
2194	22876	AI172041	r, w, z, ee		adrenal gland protein AD-004
464	16074	AA874874	t		alcohol dehydrogenase 5, alcohol dehydrogenase 5 (class III), chi polypeptide
931	21993	AA943149	t, ff		ALEX1 protein, ALEX3 protein, ESTs, Weakly similar to T00084 hypothetical protein KIAA0512 [H.sapiens], armadillo repeat protein ALEX2, hypothetical protein MGC3195
1225	26120	AA998619	s		Alg5, S. cerevisiae, homolog of
3645	8266	NM_023103	a, j, r, cc		alpha-2-macroglobulin, murinoglobulin 1, murinoglobulin 2; murinoglobulin, pseudogene 1
3645	8267	NM_023103	r		alpha-2-macroglobulin, murinoglobulin 1, murinoglobulin 2, murinoglobulin, pseudogene 1
3645	8268	NM_023103	r, mm, xx		alpha-2-macroglobulin, murinoglobulin 1, murinoglobulin 2, murinoglobulin, pseudogene 1
3645	8269	NM_023103	r, jj, xx		alpha-2-macroglobulin, murinoglobulin 1, murinoglobulin 2, murinoglobulin, pseudogene 1
579	17779	AA891914	w		aminoacylase 1

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4291	11493	NM_144755	f, q, z, dd, oo, qq		AMP-activated protein kinase, ESTs, Weakly similar to MAP/microtubule affinity-regulating kinase 3; ELKL motif kinase 2 long form [Mus musculus] [M.musculus], ESTs, Weakly similar to PUTATIVE SERINE/THREONINE-PROTEIN KINASE EMK [M.musculus], G-protein-coupled receptor induced protein GIG2, Mus musculus, clone IMAGE:4947563, mRNA, partial cds, maternal embryonic leucine zipper kinase, protein kinase, AMP-activated, alpha 2 catalytic subunit
4291	11494	NM_144755	f, l, q, v, z, General, dd, oo		AMP-activated protein kinase, ESTs, Weakly similar to MAP/microtubule affinity-regulating kinase 3; ELKL motif kinase 2 long form [Mus musculus] [M.musculus], ESTs, Weakly similar to PUTATIVE SERINE/THREONINE-PROTEIN KINASE EMK [M.musculus], G-protein-coupled receptor induced protein GIG2, Mus musculus, clone IMAGE:4947563, mRNA, partial cds, maternal embryonic leucine zipper kinase, protein kinase, AMP-activated, alpha 2 catalytic subunit
3010	4224	M31322	ff, mm		amyloid beta (A4) precursor-like protein 2
3010	4225	M31322	nn, uu		amyloid beta (A4) precursor-like protein 2
4463	4223	X77934	mm		amyloid beta (A4) precursor-like protein 2
746	18419	AA894130	n, General, ww		Amyloid protein precursor-like protein 2, ESTs, Weakly similar to EPPI_MOUSE Eppin precursor [M.musculus], amyloid beta (A4) precursor-like protein 1, amyloid beta (A4) precursor-like protein 2
1912	3940	AI103718	qq		angio-associated, migratory cell protein
3709	25476	NM_031009	xx		angiotensin receptor 1
3247	16650	NM_013132	a		annexin A5
3243	428	NM_013112	x		apolipoprotein A-II
237	6329	AA819259	j, p		apolipoprotein C-II, apolipoprotein CII
990	16635	AA945171	k		apolipoprotein C-IV, apolipoprotein CIV
3496	15066	NM_019373	cc, rr		apolipoprotein M
2142	2750	AI170666	n, q, dd		arginine-rich, mutated in early stage tumors

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3768	21624	NM_031144	mm		ARP2 actin-related protein 2 homolog (yeast), ARP3 actin-related protein 3 homolog (yeast), EST, Weakly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin) [R.norvegicus], ESTs, Highly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], ESTs, Highly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin) [R.norvegicus], ESTs, Weakly similar to A29861 actin gamma [H.sapiens], ESTs, Weakly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], Homo sapiens cDNA FLJ31247 fis, clone KIDNE2005296, weakly similar to ACTIN, CYTOPLASMIC 1, Homo sapiens cDNA FLJ32120 fis, clone PEBLM1000068, highly similar to ACTIN, CYTOPLASMIC TYPE 5, Homo sapiens mRNA; cDNA DKFZp434B2115 (from clone DKFZp434B2115), RIKEN cDNA 1700052K15 gene, actin, beta, actin, beta, cytoplasmic, calcitonin gene-related peptide-receptor component protein, expressed sequence AV259599



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3768	21625	NM_031144	z		ARP2 actin-related protein 2 homolog (yeast), ARP3 actin-related protein 3 homolog (yeast), EST, Weakly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin) [R.norvegicus], ESTs, Highly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], ESTs, Highly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin) [R.norvegicus], ESTs, Weakly similar to A29861 actin gamma [H.sapiens], ESTs, Weakly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], Homo sapiens cDNA FLJ31247 fis, clone KIDNE2005296, weakly similar to ACTIN, CYTOPLASMIC 1, Homo sapiens cDNA FLJ32120 fis, clone PEBLM1000068, highly similar to ACTIN, CYTOPLASMIC TYPE 5, Homo sapiens mRNA; cDNA DKFZp434B2115 (from clone DKFZp434B2115), RIKEN cDNA 1700052K15 gene, actin, beta, actin, beta, cytoplasmic, calcitonin gene-related peptide-receptor component protein, expressed sequence AV259599
1935	18831	AI104357	e		ARP2 actin-related protein 2 homolog (yeast), ARP3 actin-related protein 3 homolog (yeast), EST, Weakly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin) [R.norvegicus], ESTs, Highly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], ESTs, Weakly similar to A29861 actin gamma [H.sapiens], ESTs, Weakly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], Homo sapiens cDNA FLJ31247 fis, clone KIDNE2005296, weakly similar to ACTIN, CYTOPLASMIC 1, Homo sapiens cDNA FLJ32120 fis, clone PEBLM1000068, highly similar to ACTIN, CYTOPLASMIC TYPE 5, Homo sapiens mRNA; cDNA DKFZp434B2115 (from clone DKFZp434B2115), RIKEN cDNA 1700052K15 gene, actin, beta, actin, beta, cytoplasmic, calcitonin gene-related peptide-receptor component protein, expressed

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3138	721	NM_012780	tt		Aryl hydrocarbon receptor nuclear translocator 2, aryl hydrocarbon receptor nuclear translocator, aryl hydrocarbon receptor nuclear translocator 2, aryl hydrocarbon receptor nuclear translocator-like
1631	5866	AI045751	y		asparaginyl-tRNA synthetase, hypothetical protein FLJ23441
708	17900	AA893353	gg, hh, rr		aspartyl aminopeptidase
1795	12863	AI072467	nn		AT motif binding factor 1, ESTs, Weakly similar to AT motif-binding factor [M.musculus], KIAA1762 protein, RIKEN cDNA 3632413B07 gene
2381	15091	AI178740	f		AT2 receptor-interacting protein 1, Homo sapiens cDNA FLJ32157 fis, clone PLACE6000205, moderately similar to TRANSCRIPTIONAL REPRESSOR PROTEIN YY1, YY1 transcription factor
265	19566	AA819879	c		ATP binding protein associated with cell differentiation, phosducin-like 2
1956	15065	AI105050	p, ii, ll		ATP synthase, H <sup>+</sup> transporting mitochondrial F1 complex, beta subunit, ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, beta polypeptide, ATPase, H <sup>+</sup> transporting, lysosomal 70kD, V1 subunit A, isoform 1, ATPase, H <sup>+</sup> transporting, lysosomal 70kD, V1 subunit A, isoform 2, DNA segment, Chr 17, Wayne State University 164, expressed, EST, Weakly similar to ATPB_RAT ATP synthase beta chain, mitochondrial precursor [R.norvegicus]
4043	10909	NM_053756	o		ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3, EST, Moderately similar to ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to AT93 MOUSE ATP SYNTHASE LIPID-BINDING PROTEIN P3 PRECURSOR [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3501	22726	NM_019383	r		ATP synthase, H+ transporting, mitochondrial F0 complex, subunit d, EST, Weakly similar to ATPQ_HUMAN ATP SYNTHASE D CHAIN, MITOCHONDRIAL [H.sapiens], EST, Weakly similar to ATPQ_RAT ATP synthase D chain, mitochondrial [R.norvegicus]
4154	18810	NM_130430	w, ss		ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle, EST, Moderately similar to A35730 H+-transporting ATP synthase (EC 3.6.1.34) alpha chain precursor - rat (fragment) [R.norvegicus]
4276	18450	NM_139106	r, ss		ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit, EST, Moderately similar to ATPD_HUMAN ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSOR [H.sapiens], RIKEN cDNA 0610008F14 gene, RIKEN cDNA 1500000I11 gene, expressed sequence A1467246
4252	7395	NM_138883	p, ff		ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit, ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein), EST, Weakly similar to ATPO_HUMAN ATP SYNTHASE OLIGOMYCIN SENSITIVITY CONFERRAL PROTEIN PRECURSOR, MITOCHONDRIAL [H.sapiens], ESTs, Highly similar to ATPO_HUMAN ATP SYNTHASE OLIGOMYCIN SENSITIVITY CONFERRAL PROTEIN PRECURSOR, MITOCHONDRIAL [H.sapiens], ESTs, Moderately similar to ATPO_HUMAN ATP SYNTHASE OLIGOMYCIN SENSITIVITY CONFERRAL PROTEIN PRECURSOR, MITOCHONDRIAL [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2336	8949	AI177593	I, General		ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 16 kDa, ATPase, H <sup>+</sup> transporting, lysosomal 16kD, V0 subunit C, ATPase, H <sup>+</sup> transporting, lysosomal 16kD, V0 subunit c, ATPase, H <sup>+</sup> transporting, lysosomal 21kD, V0 subunit c*, ATPase, H <sup>+</sup> transporting, lysosomal 21kDa, V0 subunit B, Mus musculus, Similar to ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 21kD, clone MGC:6568 IMAGE:2812497, mRNA, complete cds
4074	20939	NM_053884	I, m, s, General, bb, qq, uu		ATPase, H <sup>+</sup> transporting, lysosomal 14kD, V1 subunit F
4160	7864	NM_130823	c, gg, hh, oo, qq		ATPase, H <sup>+</sup> transporting, lysosomal 16kD, V0 subunit C, ATPase, H <sup>+</sup> transporting, lysosomal 16kD, V0 subunit c, ATPase, H <sup>+</sup> transporting, lysosomal 21kD, V0 subunit c*, ATPase, H <sup>+</sup> transporting, lysosomal 21kDa, V0 subunit B, ESTs, Weakly similar to VATL_MOUSE Vacuolar ATP synthase 16 kDa proteolipid subunit [R.norvegicus], Mus musculus, Similar to ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 21kD, clone MGC:6568 IMAGE:2812497 mRNA complete cds
705	17754	AA893246	a, w		ATPase, H <sup>+</sup> transporting, lysosomal 34kD, V1 subunit D
4129	3831	NM_057213	e, General, cc, qq		ATPase, H <sup>+</sup> transporting, lysosomal 56/58kD, V1 subunit B, isoform 1 (Renal tubular acidosis with deafness), ATPase, H <sup>+</sup> transporting, lysosomal 56/58kD, V1 subunit B, isoform 2, ATPase, H <sup>+</sup> transporting, lysosomal 56/58kDa, V1 subunit B, isoform 1, EST, Moderately similar to VAB2_MOUSE Vacuolar ATP synthase subunit B, brain isoform (V-ATPase B2 subunit) (Vacuolar proton pump B isoform 2) (Endomembrane proton pump 58 kDa subunit) [R.norvegicus], ESTs, Highly similar to VAB2_MOUSE VACUOLAR ATP SYNTHASE SUBUNIT B, BRAIN ISOFORM (V-ATPASE B2 SUBUNIT) (VACUOLAR PROTON PUMP B ISOFORM 2) (ENDOMEMBRANE PROTON PUMP 58 KDA SUBUNIT) [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4003	22617	NM_053578	d		ATPase, H+ transporting, lysosomal 9kD V0 subunit E, ATPase, H+ transporting, lysosomal 9kD V0 subunit e, Homo sapiens cDNA FLJ12004 fis, clone HEMBB1001564, moderately similar to VACUOLAR ATP SYNTHASE SUBUNIT H (EC 3.6.1.34), Homo sapiens, clone MGC:17890 IMAGE:3908757, mRNA, complete cds, RIKEN cDNA 0610006O14 gene
2096	22661	AI169265	t, mm.		ATPase, H+ transporting, lysosomal interacting protein 1, EST, Weakly similar to I54197 hypothetical protein [H.sapiens], ESTs, Weakly similar to VAS1_RAT Vacuolar ATP synthase subunit S1 precursor (V-ATPase S1 subunit) (V-ATPase S1 accessory protein) (V-ATPase Ac45 subunit) (C7-1 protein) [R.norvegicus], Homo sapiens cDNA FLJ12563 fis, clone NT2RM4000820, weakly similar to VACUOLAR ATP SYNTHASE SUBUNIT AC45 PRECURSOR (EC 3.6.1.34), expressed sequence AW108110
3892	16178	NM_031785	ii		ATPase, H+ transporting, lysosomal interacting protein 1, EST, Weakly similar to I54197 hypothetical protein [H.sapiens], ESTs, Weakly similar to VAS1_RAT Vacuolar ATP synthase subunit S1 precursor (V-ATPase S1 subunit) (V-ATPase S1 accessory protein) (V-ATPase Ac45 subunit) (C7-1 protein) [R.norvegicus], Homo sapiens cDNA FLJ12563 fis, clone NT2RM4000820, weakly similar to VACUOLAR ATP SYNTHASE SUBUNIT AC45 PRECURSOR (EC 3.6.1.34), expressed sequence AW108110
3830	20840	NM_031604	d		ATPase, H+ transporting, lysosomal V0 subunit A isoform 4, ATPase, H+ transporting, lysosomal V0 subunit a isoform 1, ATPase, H+ transporting, lysosomal V0 subunit a isoform 2, ATPase, H+ transporting, lysosomal V0 subunit a isoform 4, EST, Weakly similar to B38656 vacuolar proton pump 116K chain - rat [R.norvegicus], ESTs, Moderately similar to B38656 vacuolar proton pump 116K chain - rat [R.norvegicus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3830	20841	NM_031604	bb		ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit A isoform 4, ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a isoform 1, ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a isoform 2, ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a isoform 4, EST, Weakly similar to B38656 vacuolar proton pump 116K chain - rat [R.norvegicus], ESTs, Moderately similar to B38656 vacuolar proton pump 116K chain - rat [R.norvegicus]
3244	23709	NM_013113	l, w, z		ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 1 polypeptide
3244	23710	NM_013113	ww		ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 1 polypeptide
3884	4314	NM_031760	b, m, dd, uu, vv		ATP-binding cassette, sub-family B (MDR/TAP), member 11, ATP-binding cassette, sub-family F (GCN20), member 2
1464	4251	A1013494	e		ATP-binding cassette, sub-family F (GCN20), member 2, EST, Highly similar to DVHUCF cystic fibrosis transmembrane conductance regulator [H.sapiens], ESTs, Highly similar to MRP4_HUMAN MULTIDRUG RESISTANCE-ASSOCIATED PROTEIN 4 [H.sapiens], ESTs, Weakly similar to A40303 cystic fibrosis transmembrane conductance regulator - mouse [M.musculus], ESTs, Weakly similar to NFM MOUSE NEUROFILAMENT TRIPLET M PROTEIN [M.musculus], Mus musculus, Similar to sodium/calcium/potassium exchanger, clone MGC:27617 IMAGE:4504496, mRNA, complete cds, RIKEN cDNA 4930488P18 gene, cystic fibrosis transmembrane conductance regulator homolog, cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7), neurofilament, medium polypeptide
3966	2548	NM_053359	rr		ATX1 (antioxidant protein 1) homolog 1 (yeast), ATX1 antioxidant protein 1 homolog (yeast)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2211	4193	AI172274	dd		AU RNA binding protein/enoyl-Coenzyme A hydratase, ESTs, Weakly similar to I37195 AU-specific RNA-binding protein / enoyl-CoA hydratase homolog [H.sapiens], enoyl coenzyme A hydratase 1, peroxisomal, uncharacterized hypothalamus protein HCDASE
1173	2958	AA996944	ee		B-box and SPRY domain containing, ring finger protein (C3HC4 type) 8, ring finger protein 23
4290	15703	NM_144750	f, n, gg, hh, pp		B-cell CLL/lymphoma 3, B-cell leukemia/lymphoma 3, DNA segment, EST 1068184, ESTs, Weakly similar to T42713 ankyrin 3, splice form 1 - mouse [M.musculus], Homo sapiens cDNA FLJ11375 fis, clone HEMBA1000411, weakly similar to ANKYRIN, Homo sapiens clone 24649 mRNA sequence, Homo sapiens, similar to RIKEN cDNA 1700007B22, clone MGC:26734 IMAGE:4826296, mRNA, complete cds, KIAA1223 protein, hypothetical protein DKFZp564O043, nuclear factor kappa B p105 subunit, nuclear factor of kappa light chain gene enhancer in B-cells 1, p105, nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100
2976	13499	L26267	s		B-cell CLL/lymphoma 3, B-cell leukemia/lymphoma 3, ESTs, Weakly similar to NUCLEAR FACTOR NF-KAPPA-B P105 SUBUNIT [M.musculus], ESTs, Weakly similar to T42713 ankyrin 3, splice form 1 - mouse [M.musculus], Mus musculus, clone MGC:7734 IMAGE:3498403, mRNA, complete cds, nuclear factor of kappa light chain gene enhancer in B-cells 1, p105, nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2131	14938	AI170362	qq		B-cell CLL/lymphoma 3, B-cell leukemia/lymphoma 3, ESTs, Weakly similar to NUCLEAR FACTOR NF-KAPPA-B P105 SUBUNIT [M.musculus], Mus musculus, clone MGC:7734 IMAGE:3498403, mRNA, complete cds, nuclear factor kappa B p105 subunit, nuclear factor of kappa light chain gene enhancer in B-cells 1, p105, nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100
523	18152	AA875661	x		B-cell CLL/lymphoma 7B, B-cell CLL/lymphoma 7C
3511	18702	NM_020080	oo		B-cell linker, DKFZP564J0123 protein, RIKEN cDNA 4733401H18 gene, hypothetical gene supported by BC007071
3671	771	NM_024368	a, qq		B-cell src-homology tyrosine kinase, chromosome 20 open reading frame 148, fyn-related kinase, protein tyrosine kinase 6, tyrosine kinase, non-receptor, 2, v-abl Abelson murine leukemia viral oncogene homolog 1, v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene)
1350	22545	AI009747	z		B-cell translocation gene 1, anti-proliferative, ESTs, Highly similar to TOB1_HUMAN TOB1 PROTEIN [H.sapiens], transducer of ERBB2, 1, transducer of ERBB2, 2, transducer of ErbB-2.1
3479	23678	NM_019290	l, u, General		B-cell translocation gene 3, BTG family, member 3
3479	23679	NM_019290	General, ss		B-cell translocation gene 3, BTG family, member 3
2443	9821	AI180114	ss		BCL2/adenovirus E1B 19 kDa-interacting protein 1, NIP2, ESTs, Weakly similar to NIP2 MOUSE BCL2/ADENOVIRUS E1B 19-KDA PROTEIN-INTERACTING PROTEIN 2 [M.musculus], KIAA0367 protein, KIAA1872 protein, Mus musculus, Similar to Rho GTPase activating protein 1, clone MGC:7050 IMAGE:3156467, mRNA, complete cds, RIKEN cDNA 3110043J09 gene, hypothetical protein MGC8103
4140	23033	NM_080888	tt		BCL2/adenovirus E1B 19 kDa-interacting protein 3-like, BCL2/adenovirus E1B 19kD interacting protein 3-like



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3618	17757	NM_022698	y		BCL2-antagonist of cell death, Bcl-associated death promoter
396	15172	AA859362	p		BCL2-associated athanogene 3, BCL2-associated athanogene 5, Bcl2-associated athanogene 3, RIKEN cDNA 170Q081D05 gene
3538	20129	NM_021850	gg, hh		BCL2-like 2, Bcl2-like 2
919	22677	AA942718	t, ff, pp		BCL2-related ovarian killer, Bcl2-like
3805	444	NM_031535	t, mm		BCL2-related ovarian killer, Bcl2-like
3805	445	NM_031535	t, mm		BCL2-related ovarian killer, Bcl2-like, ilvB (bacterial acetolactate synthase)-like
3805	446	NM_031535	t, w, ii, ll, mm		BCL2-related ovarian killer, Bcl2-like, ilvB (bacterial acetolactate synthase)-like
335	17823	AA851214	y		beta-site APP-cleaving enzyme, hypothetical protein MGC7474
4117	1888	NM_057130	n, bb		BH3 interacting (with BCL2 family) domain, apoptosis agonist, ESTs, Weakly similar to HRK MOUSE ACTIVATOR OF APOPTOSIS HAKIRI [M.musculus], harakiri, BCL2 interacting protein (contains only BH3 domain)
2355	4979	AI178133	ss		Bmp2-induced gene, ESTs, Highly similar to CIA1_HUMAN WD40-REPEAT CONTAINING PROTEIN CIAO 1 [H.sapiens], ESTs, Weakly similar to LIS1_MOUSE Platelet-activating factor acetylhydrolase 1B alpha subunit (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH alpha) (Lissencephaly-1 protein) (LIS-1) [R.norvegicus], F-box and WD-40 domain protein 7 (archipelago homolog, Drosophila), Homo sapiens 38kDa splicing factor mRNA, complete cds, Homo sapiens cDNA FLJ31861 fis, clone NT2RP7001319, RIKEN cDNA 2310009C03 gene, platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta), platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit, platelet-activating factor acetylhydrolase, isoform 1b, alpha subunit

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4286	8717	NM_139333	gg, hh		Bmp2-induced gene, ESTs, Weakly similar to T2D4_HUMAN TRANSCRIPTION INITIATION FACTOR TFIID 100 KDA SUBUNIT [H.sapiens], Mus musculus F-box-WD40 repeat protein 6 (Fbxw6) mRNA, complete cds, Mus musculus, clone MGC:7934 IMAGE:3583848, mRNA, complete cds, RIKEN cDNA 1500009K01 gene, RIKEN cDNA 2310009C03 gene, RIKEN cDNA 4933429D11 gene, TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65 kD, WD repeat domain 18, guanine nucleotide binding protein (G protein), beta polypeptide 1, guanine nucleotide binding protein beta subunit 4, guanine nucleotide binding protein, beta 1, guanine nucleotide binding protein, beta 4, hypothetical protein FLJ00012, nuclear matrix protein NMP200
3695	1035	NM_030851	y		bradykinin receptor B1, bradykinin receptor, beta
1089	23852	AA956746	p		BRAF35/HDAC2 complex (80 kDa), KIAA1416 protein, hypothetical protein FLJ12178, hypothetical protein KIAA1335
2554	22387	AI230753	a, tt		brain protein I3
668	11997	AA892828	ll		branched chain ketoacid dehydrogenase E1, beta polypeptide, pyruvate dehydrogenase (lipoamide) beta
1098	12000	AA957319	bb		branched chain ketoacid dehydrogenase E1, beta polypeptide, pyruvate dehydrogenase (lipoamide) beta
2259	5876	AI176117	oo		branched chain ketoacid dehydrogenase E1, beta polypeptide, pyruvate dehydrogenase (lipoamide) beta
3698	21800	NM_030987	r, w, z		BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast), ESTs, Weakly similar to guanine nucleotide-binding protein, beta-1# subunit [Rattus norvegicus] [R.norvegicus], Mus musculus, clone MGC:7934 IMAGE:3583848, mRNA, complete cds, budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae), guanine nucleotide binding protein, beta 1, neural precursor cell expressed, developmentally down-regulated gene 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3698	21801	NM_030987	gg, hh		BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast), ESTs, Weakly similar to guanine nucleotide-binding protein, beta-1# subunit [Rattus norvegicus] [R.norvegicus], Mus musculus, clone MGC:7934 IMAGE:3583848, mRNA, complete cds, budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae), guanine nucleotide binding protein, beta 1, neural precursor cell expressed, developmentally down-regulated gene 1
3698	21806	NM_030987	s, u		BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast), ESTs, Weakly similar to guanine nucleotide-binding protein, beta-1# subunit [Rattus norvegicus] [R.norvegicus], Mus musculus, clone MGC:7934 IMAGE:3583848, mRNA, complete cds, budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae), guanine nucleotide binding protein, beta 1, neural precursor cell expressed, developmentally down-regulated gene 1
725	17836	AA893626	uu		BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast), Guanine nucleotide-binding protein beta 1, RIKEN cDNA 2700038L12 gene, budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae), neural precursor cell expressed, developmentally down-regulated gene 1
80	21042	AA799814	p		Ca <sup>++</sup> /calmodulin-dependent protein kinase II, delta subunit, ER to nucleus signalling 1, MAP kinase-activated protein kinase 2, Mus musculus, clone MGC:18731 IMAGE:3980838, mRNA, complete cds, calcium/calmodulin-dependent protein kinase II, delta, expressed sequence AI874665
2793	21043	AI237813	mm		Ca <sup>++</sup> /calmodulin-dependent protein kinase II, delta subunit, ER to nucleus signalling 1, MAP kinase-activated protein kinase 2, Mus musculus, clone MGC:18731 IMAGE:3980838, mRNA, complete cds, calcium/calmodulin-dependent protein kinase II, delta, expressed sequence AI874665

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3785	6671	NM_031333	t, General, mm		cadherin 13, cadherin 2, cadherin 2, type 1, N-cadherin (neuronal), desmocollin 1, desmoglein 2
3785	6672	NM_031333	g		cadherin 13, cadherin 2, cadherin 2, type 1, N-cadherin (neuronal), desmocollin 1, desmoglein 2
3785	6673	NM_031333	j		cadherin 13, cadherin 2, cadherin 2, type 1, N-cadherin (neuronal), desmocollin 1, desmoglein 2
810	12335	AA901065	k, cc		calcium binding atopy-related autoantigen 1
4151	3458	NM_130412	ii		calcium binding protein Cab45 precursor, stromal cell derived factor 4
3961	23211	NM_053334	f, nn		calcium modulating ligand
1221	6965	AA998523	h		calmegin, calnexin
2167	20905	AI171273	t, mm		capping protein (actin filament) muscle Z-line, beta, capping protein beta 1
2878	14882	D00362	w, ll, rr		carboxylesterase 3 (brain), esterase 1
2997	14881	M20629	j, dd, ll		carboxylesterase 3 (brain), esterase 1
2555	24270	AI230758	rr		cargo selection protein (mannose 6 phosphate receptor binding protein)
3717	1480	NM_031021	g		casein kinase 2, beta polypeptide, casein kinase II, beta subunit
1958	6225	AI105105	ss		CasL interacting molecule, DNA segment, EST 573322, KIAA0750 gene product, KIAA0819 protein, KIAA1364 protein, hypothetical protein FLJ14966, tangerin
3587	4256	NM_022522	oo, uu		caspase 14, caspase 14, apoptosis-related cysteine protease, caspase 2, caspase 2, apoptosis-related cysteine protease (neural precursor cell expressed, developmentally down-regulated 2)
3587	4257	NM_022522	k, mm		caspase 14, caspase 14, apoptosis-related cysteine protease, caspase 2, caspase 2, apoptosis-related cysteine protease (neural precursor cell expressed, developmentally down-regulated 2)
4232	24672	NM_138517	jj		cathepsin G, granzyme B, granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1), granzyme C, similar to granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) (H. sapiens)
3409	1894	NM_017320	ii, nn, pp		cathepsin S

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4036	16122	NM_053698	mm		Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4
4036	16123	NM_053698	ee		Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4
2972	24518	L19927	t, y, mm		CCR4-NOT transcription complex, subunit 7, EST, Highly similar to G Chain G, Rat Liver F1-Atpase [R.norvegicus], expressed sequence C80464
3236	8898	NM_013087	q, tt		CD 81 antigen, CD81 antigen (target of antiproliferative antibody 1), ESTs, Weakly similar to CD81 ANTIGEN [M.musculus], ESTs, Weakly similar to CD81_RAT CD81 antigen (26 kDa cell surface protein TAPA-1) (Target of the antiproliferative antibody 1) [R.norvegicus]
3528	19710	NM_021744	bb		CD14 antigen
3588	4412	NM_022523	j, x		CD151 antigen, EST A1426782, ESTs, Moderately similar to C151 MOUSE PLATELET-ENDOTHELIAL TETRASPAN ANTIGEN 3 [M.musculus], RIKEN cDNA 1110014F12 gene, RIKEN cDNA 2210021G21 gene, RIKEN cDNA 2610042G18 gene, RIKEN cDNA 2700063A19 gene, transmembrane 4 superfamily member 6
3315	1523	NM_017079	General		CD1B antigen, b polypeptide, CD1D antigen, d polypeptide, CD1E antigen, e polypeptide, CD1d1 antigen, CD1d2 antigen, expressed sequence A1747460
4104	21066	NM_054001	c, v, ii, rr		CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2, CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2 (lysosomal integral membrane protein II), EST, Moderately similar to LYII_HUMAN LYOSOME MEMBRANE PROTEIN II [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
498	15371	AA875205	xx		CDA02 protein, ESTs, Weakly similar to IF39_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]
498	15372	AA875205	y, General, gg, hh, ll		CDA02 protein, ESTs, Weakly similar to IF39_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]
786	15373	AA900018	x		CDA02 protein, ESTs, Weakly similar to IF39_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]
44	20973	AA799581	v, General		CDA11 protein, Homo sapiens cDNA FLJ12997 fis, clone NT2RP3000247, Homo sapiens, clone IMAGE:3689276, mRNA, KIAA0218 gene product
921	22102	AA942845	m		CDA11 protein, Homo sapiens cDNA FLJ12997 fis, clone NT2RP3000247, Homo sapiens, clone IMAGE:3689276, mRNA, KIAA0218 gene product
297	6635	AA849786	bb, ll		CDC-like kinase 2, CDC-like kinase 3, EST, Highly similar to CLK3_RAT Protein kinase CLK3 (CDC-like kinase 3) [R.norvegicus], ESTs, Weakly similar to CLK3_RAT Protein kinase CLK3 (CDC-like kinase 3) [R.norvegicus]
2335	17773	AI177513	y		CDC-like kinase 3, EST, Highly similar to CLK3_RAT Protein kinase CLK3 (CDC-like kinase 3) [R.norvegicus], ESTs, Weakly similar to CLK3_RAT Protein kinase CLK3 (CDC-like kinase 3) [R.norvegicus], Homo sapiens cDNA: FLJ21653 fis, clone COL08586, highly similar to HUMKINCDC Human protein kinase mRNA
4468	463	X83579	f, q, u, ww		CDK-related protein kinase PNQLARE, cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase), cyclin-dependent kinase 7 (homolog of Xenopus MO15 cdk-activating kinase)
1571	15240	AI044241	General		cell death-inducing DFFA-like effector b, expressed sequence AI790179
1644	15241	AI058382	General		cell death-inducing DFFA-like effector b, expressed sequence AI790179
493	7875	AA875127	x		cell division cycle 2-like 5 (cholinesterase-related cell division controller)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1585	5556	AI044638	ii		cell division cycle associated 4, transcriptional regulator interacting with the PHS-bromodomain 2
4266	16176	NM_139087	u		cell growth regulatory with EF-hand domain
4191	745	NM_133567	cc		Centaurin-alpha2 protein, EST, Weakly similar to T42627 ADP-ribosylation factor-directed GTPase activating protein, isoform a - mouse [M.musculus], ESTs, Weakly similar to Centaurin-alpha2 protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to T42627 ADP-ribosylation factor-directed GTPase activating protein, isoform a - mouse [M.musculus], RIKEN cDNA 1700030C10 gene, centaurin, beta 2, centaurin, beta 5, development and differentiation enhancing, hypothetical protein AI 133206
673	22872	AA892859	g, rr		cerebral cell adhesion molecule
1080	24046	AA956185	e		CGI-10 protein
2136	24048	AI170570	qq		CGI-10 protein
2146	1923	AI170754	r, z, ee		CGI-127 protein
2391	1924	AI178902	r, z		CGI-127 protein
1231	3660	AA998833	j		CGI-141 protein, ESTs, Weakly similar to T46908 hypothetical protein DKFZp761G2423.1 [H.sapiens]
2620	3662	AI232506	o		CGI-141 protein, ESTs, Weakly similar to T46908 hypothetical protein DKFZp761G2423.1 [H.sapiens]
1207	3367	AA998110	xx		CGI-143 protein
2900	2744	D87991	b, e, q, dd		CGI-19 protein, ESTs, Weakly similar to JC5026 UDP-galactose transporter related protein 1 - rat [R.norvegicus], Mus musculus, clone MGC:31031 IMAGE:5137689, mRNA, complete cds, UDP-galactose translocator 2, UDP-galactose transporter related, YEA4 protein, expressed sequence AI428480, hypothetical protein MNCh-4414
2787	14837	AI237638	k, mm		CGI-63 protein, KIAA1576 protein, Mus musculus, Similar to vesicle amine transport protein 1, clone MGC:38107 IMAGE:5320239, mRNA, complete cds

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4269	734	NM_139094	d		CGI-74-like SR-rich, DNA segment, Chr 17, human D6S45, EST, Weakly similar to SRA4_HUMAN CTD-BINDING SR-LIKE PROTEIN RA4 [H.sapiens], ESTs, Highly similar to T31420 C-terminal domain-binding protein rA8 - rat [R.norvegicus], ESTs, Moderately similar to RD PROTEIN [M.musculus], ESTs, Weakly similar to RD PROTEIN [M.musculus], ESTs, Weakly similar to T31420 C-terminal domain-binding protein rA8 - rat [R.norvegicus], KIAA1116 protein, expressed sequence AI447644, expressed sequence AI448652, hypothetical protein FLJ10290, pre-mRNA splicing SR protein rA4
481	16319	AA875047	tt		chaperonin containing TCP1, subunit 6A (zeta 1), chaperonin subunit 6a (zeta)
3713	1024	NM_031016	k		cholinergic receptor, muscarinic 2
1229	20271	AA998747	cc, mm		chromosome 1 open reading frame 17, procollagen lysine, 2-oxoglutarate 5- dioxygenase 2, procollagen-lysine, 2- oxoglutarate 5-dioxygenase (lysine hydroxylase) 2, procollagen-lysine, 2- oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI), procollagen-lysine, 2-oxoglutarate 5- dioxygenase 1, procollagen-lysine, 2- oxoglutarate 5-dioxygenase 3
4062	20270	NM_053827	bb, mm		chromosome 1 open reading frame 17, procollagen lysine, 2-oxoglutarate 5- dioxygenase 2, procollagen-lysine, 2- oxoglutarate 5-dioxygenase (lysine hydroxylase) 2, procollagen-lysine, 2- oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI), procollagen-lysine, 2-oxoglutarate 5- dioxygenase 1, procollagen-lysine, 2- oxoglutarate 5-dioxygenase 3
2360	23248	AI178267	b, f, p, q, General, dd		chromosome 1 open reading frame 9
2748	23249	AI236597	p, ff		chromosome 1 open reading frame 9
76	18880	AA799801	bb, li		chromosome 11 open reading frame 17, predicted gene ICRFP703B1614Q5.6
95	18881	AA799992	a, d		chromosome 11 open reading frame 17, predicted gene ICRFP703B1614Q5.6
95	18883	AA799992	a		chromosome 11 open reading frame 17, predicted gene ICRFP703B1614Q5.6



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2402	13055	AI179100	General, jj		chromosome 14 open reading frame 1
1461	23444	AI013448	rr		chromosome 20 open reading frame 30
1603	5715	AI045158	v		chromosome 20 open reading frame 55
1216	14379	AA998415	rr		Cip1-interacting zinc finger protein, ESTs, Weakly similar to A40016 matrin 3 - rat [R.norvegicus], matrin 3, nuclear protein, nuclear protein 220
1840	16814	AI101462	jj		cisplatin resistance related protein CRR9p
4063	17154	NM_053835	d		clathrin, light polypeptide (Lca), clathrin, light polypeptide (Lcb), expressed sequence AV026556
1064	23637	AA955587	pp		cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kD
4216	1557	NM_134403	qq, ss, vv		CLLL7 protein, DKFZP586C1619 protein, ESTs, Weakly similar to T31081 cca3 protein - rat [R.norvegicus], Homo sapiens cDNA FLJ25141 fis, clone CBR07151, RIKEN cDNA 4933432B13 gene, RIKEN cDNA 6330404E16 gene, chromosome condensation 1-like, expressed sequence AW539457, gene from ankvrin repeat
2807	17108	AI639017	bb		CLLL8 protein, EST, Highly similar to S30385 G9a protein [H.sapiens], ESTs, Weakly similar to T17453 ERG-associated protein ESET - mouse [M.musculus], SET domain, bifurcated 1, euchromatic histone methyltransferase 1, suppressor of variegation 3-9 (Drosophila) homolog 2; hypothetical protein FLJ23414
1504	7420	AI029291	l		ClpX caseinolytic protease X homolog (E. coli)
4144	9952	NM_080902	xx		CLST 11240 protein, DKFZP564K247 protein, ESTs, Highly similar to T14766 hypothetical protein DKFZp564K247.1 [H.sapiens], ESTs, Weakly similar to hypoxia induced gene 1 [Rattus norvegicus] [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp434A1627 (from clone DKFZp434A1627), RIKEN cDNA 2010110M21 gene, RIKEN cDNA 2310056K19 gene, hypothetical protein MGC2198, hypoxia induced gene 1
755	3908	AA894259	j		CLST 11240 protein, RIKEN cDNA 2010110M21 gene, RIKEN cDNA 2310056K19 gene, hypoxia induced gene 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2324	16175	AI177145	w		CMP-NeuAC:(beta)-N-acetylgalactosaminide (alpha)2,6-sialyltransferase member VI, ESTs, Weakly similar to CAG7_RAT ALPHA-N-ACETYL GALACTOSAMINIDE ALPHA-2,6-SIALYLTRANSFERASE (ST6GALNACIII) (STY) [R.norvegicus], sialyltransferase 7D ((alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase), similar to sialyltransferase 7 ((alpha-N-acetylneuraminy 2,3-betagalactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase) E
2964	107	L14001	General, mm		CMRF35 leukocyte immunoglobulin-like receptor, EST, Weakly similar to PIGR_RAT Polymeric-immunoglobulin receptor precursor (Poly-IG receptor) (PIGR) [Contains: Secretory component] [R.norvegicus], Fc receptor, IgA, IgM, high affinity, Homo sapiens, similar to CMRF35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA, complete cds, Mus musculus polymeric immunoglobulin receptor 3 precursor (Pigr3) mRNA, complete cds, RIKEN cDNA 1810037B05 gene, RIKEN cDNA 2310016B05 gene, immunoglobulin superfamily, member 7, polymeric immunoglobulin receptor, regulator of Fas-induced apoptosis
2965	108	L14002	I, m, u, General, cc, kk, vv		CMRF35 leukocyte immunoglobulin-like receptor, EST, Weakly similar to PIGR_RAT Polymeric-immunoglobulin receptor precursor (Poly-IG receptor) (PIGR) [Contains: Secretory component] [R.norvegicus], Fc receptor, IgA, IgM, high affinity, Homo sapiens, similar to CMRF35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA, complete cds, Mus musculus polymeric immunoglobulin receptor 3 precursor (Pigr3) mRNA, complete cds, RIKEN cDNA 1810037B05 gene, RIKEN cDNA 2310016B05 gene, immunoglobulin superfamily, member 7, polymeric immunoglobulin receptor, regulator of Fas-induced apoptosis

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2967	109	L14004	b, General, vv		CMRF35 leukocyte immunoglobulin-like receptor, EST, Weakly similar to PIGR_RAT Polymeric-immunoglobulin receptor precursor (Poly-IG receptor) (PIGR) [Contains: Secretory component] [R.norvegicus], Fc receptor, IgA, IgM, high affinity, Homo sapiens, similar to CMRF35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA, complete cds, Mus musculus polymeric immunoglobulin receptor 3 precursor (Pigr3) mRNA, complete cds, RIKEN cDNA 1810037B05 gene, RIKEN cDNA 2310016B05 gene, immunoglobulin superfamily, member 7, polymeric immunoglobulin receptor, regulator of Fas-induced apoptosis
4354	110	U01145	l, General, kk		CMRF35 leukocyte immunoglobulin-like receptor, EST, Weakly similar to PIGR_RAT Polymeric-immunoglobulin receptor precursor (Poly-IG receptor) (PIGR) [Contains: Secretory component] [R.norvegicus], Fc receptor, IgA, IgM, high affinity, Homo sapiens, similar to CMRF35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA, complete cds, Mus musculus polymeric immunoglobulin receptor 3 precursor (Pigr3) mRNA, complete cds, RIKEN cDNA 1810037B05 gene, RIKEN cDNA 2310016B05 gene, immunoglobulin superfamily, member 7, polymeric immunoglobulin receptor, regulator of Fas-induced apoptosis

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4357	111	U02506	b, General, kk, vv		CMRF35 leukocyte immunoglobulin-like receptor, EST, Weakly similar to PIGR_RAT Polymeric-immunoglobulin receptor precursor (Poly-IG receptor) (PIGR) [Contains: Secretory component] [R.norvegicus], Fc receptor, IgA, IgM, high affinity, Homo sapiens, similar to CMRF35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA, complete cds, Mus musculus polymeric immunoglobulin receptor 3 precursor (Pigr3) mRNA, complete cds, RIKEN cDNA 1810037B05 gene, RIKEN cDNA 2310016B05 gene, immunoglobulin superfamily, member 7, polymeric immunoglobulin receptor, regulator of Fas-induced apoptosis
2446	17365	AI180249	m		colon cancer-associated protein Mic1
3322	20653	NM_017104	s		colony stimulating factor 3 (granulocyte)
1270	8008	AF039584	xx		Complement component 4 binding protein, alpha, Mus musculus decay accelerating factor glycosylphosphatidylinositol-anchored form (DAF) mRNA, partial cds, complement component 4 binding protein, complement component 4 binding protein, alpha, decay accelerating factor 1, expressed sequence AI195242, expressed sequence AI323748, zona nellycida 3 receptor
4124	358	NM_057146	u, vv		complement component 9
3552	6585	NM_022266	y		connective tissue growth factor
193	2845	AA818026	h		COP9 (constitutive photomorphogenic) homolog, subunit 6 (Arabidopsis thaliana), eukaryotic translation initiation factor 3, subunit 5 (epsilon), eukaryotic translation initiation factor 3, subunit 5 (epsilon, 47kD), expressed sequence AW107203, proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
715	13088	AA893495	x		corticosteroid binding globulin, serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 6
3625	53	NM_022714	v, jj		corticotropin releasing hormone receptor 2
2479	22915	AI228299	m, ll		craniofacial development protein 1
2261	7711	AI176125	e		CS box-containing WD protein, SOCS box-containing WD protein SWIP-1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1953	22957	AI104897	u, w		CTAGE-1 protein, ESTs, Moderately similar to MEA6_HUMAN MENINGIOMA-EXPRESSED ANTIGEN 6/11 (MEA6) (MEA11) [H.sapiens], ESTs, Weakly similar to MEA6_HUMAN MENINGIOMA-EXPRESSED ANTIGEN 6/11 (MEA6) (MEA11) [H.sapiens], KIAA0268 protein, meningioma expressed antigen 6 (coiled-coil proline-rich)
766	15009	AA899106	pp		cyclin D2
3136	17257	NM_012766	x, ll, rr, ww		cyclin D3
3136	17258	NM_012766	l, k, nn, ww		cyclin D3
4305	1448	NM_145783	oo		cytochrome c oxidase subunit Va, cytochrome c oxidase, subunit Va
4005	21423	NM_053586	r		cytochrome c oxidase subunit Vb, cytochrome c oxidase, subunit Vb
4005	21424	NM_053586	e, General		cytochrome c oxidase subunit Vb, cytochrome c oxidase, subunit Vb
3817	15024	NM_031572	General, ll, qq		cytochrome P450, 2c40, cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19, expressed sequence AI662255
3817	15025	NM_031572	bb, qq		cytochrome P450, 2c40, cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19, expressed sequence AI662255
4270	17119	NM_139098	p		DEAD (aspartate-glutamate-alanine-aspartate) box polypeptide 5, ESTs, Moderately similar to A57514 RNA helicase HEL117 - rat [R.norvegicus], ESTs, Weakly similar to A57514 RNA helicase HEL117 - rat [R.norvegicus], ESTs, Weakly similar to PROBABLE RNA-DEPENDENT HELICASE P68 [M.musculus], Homo sapiens cDNA FLJ25329 fis, clone TST00542, Mus musculus, clone MGC:31579 IMAGE:4505095, mRNA, complete cds, RIKEN cDNA 2310061O04 gene, RIKEN cDNA 4921506D17 gene, RNA helicase, expressed sequence AI325430

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3999	4327	NM_053563	w, tt		DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 20, DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 20, 103kD, DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 39, DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 6 (RNA helicase, 54kD), DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 7 (RNA helicase, 52kD), EST, Moderately similar to HLA-B-associated transcript 1A; DNA segment, Chr 17, human D6S81E 1; nuclear RNA helicase Bat1 [Mus musculus] [M.musculus], HLA-B-associated transcript 1A
2515	23858	AI229450	r		DEAD-box protein, ESTs, Weakly similar to DDX5 MOUSE PROBABLE RNA-DEPENDENT HELICASE P68 [M.musculus], Homo sapiens cDNA FLJ25329 fis, clone TST00542, Homo sapiens, Similar to RIKEN cDNA 2310061004 gene, clone MGC:21583 IMAGE:4479998, mRNA, complete cds, Mus musculus, clone MGC:31579 IMAGE:4505095, mRNA, complete cds, RIKEN cDNA 9130430L19 gene, RNA helicase, expressed sequence AI325430
3594	12422	NM_022546	bb		death-associated kinase 3, death-associated protein kinase 1, death-associated protein kinase 3, expressed sequence AI120141, serine/threonine kinase 17a (apoptosis-inducing), serine/threonine kinase 17b (apoptosis-inducing)
3898	16155	NM_031810	bb, ff		defensin beta 1, defensin beta 2, defensin, beta 1, expressed sequence AW260221
4040	4324	NM_053744	cc		delta-like 1 homolog (Drosophila), expressed sequence AW742678
2328	23162	AI177353	a, q, x, dd		dermatopontin
1426	12766	AI012505	ee		diacylglycerol O-acyltransferase 2, diacylglycerol O-acyltransferase homolog 2 (mouse)
4146	4739	NM_130400	ff		dihydrofolate reductase
1218	3558	AA998461	oo		DKFZP434F091 protein, gene trap ROSA 26 antisense, Philippe Soriano, hypothetical protein MGC2454

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1460	12794	AI013442	ee		DKFZP434J154 protein, ESTs, Moderately similar to T12539 hypothetical protein DKFZp434J154.1 [H.sapiens], Homo sapiens cDNA FLJ13282 fis, clone OVARC1001092, highly similar to Homo sapiens mRNA for JM5 protein, hypothetical protein 628, hypothetical protein FLJ10055
1007	22636	AA945724	v		DKFZP434M154 protein, Homo sapiens, clone IMAGE:3882977, mRNA, partial cds, chromosome 14 open reading frame 4
1583	7136	AI044604	s		DKFZP434N093 protein
852	5009	AA924737	qq		DKFZP434P106 protein, ESTs, Weakly similar to T17237 hypothetical protein DKFZp434P106.1 [H.sapiens], hypothetical protein FLJ14906, hypothetical protein from EUROIMAGE 588495
303	22071	AA849843	uu, ww		DKFZP547E2110 protein, hypothetical protein FLJ10604
1404	14267	AI011738	d, o		DKFZP564B167 protein, RIKEN cDNA 2010002I07 gene, RIKEN cDNA 2610205H19 gene
1718	9054	AI070138	dd		DKFZP564C103 protein, RIKEN cDNA 1110028N05 gene
4262	17185	NM_138919	dd		DKFZP564G0222 protein, ESTs, Moderately similar to T12451 hypothetical protein DKFZp564G0222.1 [H.sapiens], RIKEN cDNA 1110002A21 gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
110	15659	AA800199	ss		DKFZp564J157 protein, EST, Weakly similar to B24264 proline-rich protein MP3 - mouse [M.musculus], EST, Weakly similar to B36298 proline-rich protein PRB3S [H.sapiens], EST, Weakly similar to CGHU3B collagen alpha 3(IV) chain precursor, long splice form [H.sapiens], EST, Weakly similar to D40750 proline-rich protein PRB1/2S [H.sapiens], EST, Weakly similar to PIHUB6 salivary proline-rich protein precursor PRB1 [H.sapiens], EST, Weakly similar to PRP1_HUMAN SALIVARY PROLINE-RICH PROTEIN PRECURSOR [H.sapiens], EST, Weakly similar to T34520 hypothetical protein DKFZp564J157.1 [H.sapiens], ESTs, Highly similar to T34520 hypothetical protein DKFZp564J157.1 [H.sapiens], ESTs, Weakly similar to B24264 proline-rich protein MP3 - mouse [M.musculus], ESTs, Weakly similar to T34520 hypothetical protein DKFZp564J157.1 [H.sapiens]
2007	10780	AI136555	j		DKFZP564O0823 protein, ESTs, Weakly similar to S59856 collagen alpha 1(III) chain precursor - mouse [M.musculus], hypothetical protein DKFZp547D065, hypothetical protein FLJ13725, mucin and cadherin-like, splicing factor 3a, subunit 2, 66kD
1406	18684	AI011812	pp		DKFZP564O123 protein, putative breast adenocarcinoma marker (32kD)
2374	23456	AI178665	p		DKFZP566B183 protein, ESTs, Highly similar to T08719 hypothetical protein DKFZp566B183.1 [H.sapiens], hypothetical protein FLJ10420
1684	8347	AI059519	dd		DKFZP566D213 protein, EST, Moderately similar to EPIDERMAL GROWTH FACTOR PRECURSOR [M.musculus], Homo sapiens mRNA; cDNA DKFZp434O0213 (from clone DKFZp434O0213); partial cds, hypothetical protein MGC11256, nidogen 2
1463	12795	AI013482	y		DKFZP566F2124 protein, enhancer of polycomb 1



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2606	15122	AI232303	g, General, dd		DKFZP566H073 protein, Homo sapiens, clone MGC:27006 IMAGE:4828408, mRNA, complete cds, goliath protein, hypothetical protein FLJ12526, hypothetical protein FLJ20315
1455	11969	AI013273	rr		DKFZP566I1024 protein, ESTs, Highly similar to A27496 glia-derived nexin I alpha precursor [H.sapiens]
2918	4360	H31813	z, General		DKFZP586B1621 protein
341	3833	AA851255	ss		DKFZP586F1524 protein
4296	1949	NM_145092	f, i, ii, nn		DKFZP586G011 protein, ESTs, Moderately similar to I61730 lamina associated polypeptide 1C short splice form - rat [R.norvegicus], ESTs, Weakly similar to I61730 lamina associated polypeptide 1C short splice form - rat [R.norvegicus], ESTs, Weakly similar to T08767 probable lamina-associated protein DKFZp586G011.1 [H.sapiens], Homo sapiens, clone IMAGE:4651703, mRNA, Mus musculus, clone MGC:6357 IMAGE:3493883, mRNA, complete cds
2726	7307	AI235935	g, oo		DKFZP586G1517 protein, EST, Moderately similar to A Chain A, Human Tetrahydrofolate Dehydrogenase [H.sapiens], ESTs, Highly similar to T17244 hypothetical protein DKFZp586G1517.1 [H.sapiens], ESTs, Weakly similar to C1TC_RAT C-1-tetrahydrofolate synthase, cytoplasmic (C1-THF synthase) [Includes: Methylenetetrahydrofolate dehydrogenase ; Methenyltetrahydrofolate cyclohydrolase ; Formyltetrahydrofolate synthetase ] [R.norvegicus], expressed sequence AI647056, hypothetical protein FLJ13105
2528	4722	AI230038	c, ll		DKFZP586M1523 protein
616	4373	AA892310	v		DKFZP586O0120 protein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3811	1822	NM_031553	c, ww		DNA polymerase epsilon, subunit 3, ESTs, Moderately similar to CCAAT-BINDING TRANSCRIPTION FACTOR SUBUNIT A [M.musculus], ESTs, Weakly similar to A23692 transcription factor, CCAAT-binding, chain A1 - rat [R.norvegicus], RIKEN cDNA 1810034K18 gene, down-regulator of transcription 1, down-regulator of transcription 1, TBP-binding (negative cofactor 2), nuclear transcription factor Y, beta, nuclear transcription factor-Y beta, polymerase (DNA directed), epsilon 3 (p17 subunit)
3897	1000	NM_031809	j		DNA segment on chromosome X (unique) 9928 expressed sequence, ESTs, Weakly similar to cyclic nucleotide-gated channel beta subunit 1 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 1100001D19 gene, SH3-binding domain glutamic acid-rich protein, cyclic nucleotide gated channel beta 1, cyclic nucleotide gated channel beta 3, protein kinase C substrate 80K-H
1608	6241	AI045321	bb		DNA segment, Chr 1, ERATO Doi 309, expressed, EST, Weakly similar to POL1_HUMAN RETROVIRUS-RELATED POL POLYPROTEIN [H.sapiens], ESTs, Moderately similar to POL1_HUMAN RETROVIRUS-RELATED POL POLYPROTEIN [H.sapiens], HSU18004 Homo sapiens cDNA, Homo sapiens cDNA: FLJ23457 fis, clone HSI07266, Murine (DBA/2) mRNA fragment for gag related peptide, Mus musculus, clone IMAGE:5068294, mRNA, partial cds, expressed sequence AU022855, intracisternal A particles

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2170	11419	AI171365	k		DNA segment, Chr 1, Pasteur Institute 1, ESTs, Moderately similar to A57514 RNA helicase HEL117 - rat [R.norvegicus], ESTs, Weakly similar to PUTATIVE ATP-DEPENDENT RNA HELICASE PL10 [M.musculus], Homo sapiens cDNA FLJ25329 fis, clone TST00542, Mus musculus, Similar to DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 27, clone IMAGE:4167383, mRNA, partial cds, Mus musculus, clone MGC:31579 IMAGE:4505095, mRNA, complete cds, RNA helicase, expressed sequence AI324246, expressed sequence AI325430
116	18442	AA800258	f, pp, ww		DNA segment, Chr 11, Wayne State University 99, expressed, hypothetical protein FLJ14775, low density lipoprotein B, low density lipoprotein receptor defect B complementing
1413	7104	AI012103	oo		DNA segment, Chr 11, Wayne State University 99, expressed, hypothetical protein FLJ14775, low density lipoprotein B, low density lipoprotein receptor defect B complementing
3763	13358	NM_031135	xx		DNA segment, Chr 12, ERATO Doi 427, expressed, RIKEN cDNA 7420700M05 gene, TGF $\beta$ inducible early growth response, TGF $\beta$ inducible early growth response 2
2605	8390	AI232288	ww		DNA segment, Chr 12, ERATO Doi 604, expressed, ESTs, Moderately similar to hypothetical protein FLJ10416 similar to constitutive photomorph [Homo sapiens] [H.sapiens], Mus musculus, Similar to glutamate rich WD repeat protein GRWD, clone IMAGE:3498842, mRNA, partial cds, RIKEN cDNA 2610016K01 gene, RIKEN cDNA 2610529I12 gene, constitutive photomorphogenic protein 1 (Arabidopsis), retinoblastoma binding protein 4, retinoblastoma binding protein 7

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4460	16300	X70706	j		DNA segment, Chr 14, ERATO Doi 426, expressed, ESTs, Highly similar to A34789 T-plastin [H.sapiens], ESTs, Highly similar to A56536 plastin, intestinal [H.sapiens], Mus musculus, clone IMAGE:4216549, mRNA, partial cds, Mus musculus, clone MGC:6362 IMAGE:3495462, mRNA, complete cds, calreticulin, expressed sequence AL024105, plastin 1 (I isoform), plastin 2, L, plastin 3 (T isoform)
4345	1460	S76054	t, General, II, ww		DNA segment, Chr 15, Wayne State University 77, expressed, EST, Moderately similar to K2C8_RAT Keratin, type II cytoskeletal 8 (Cytokeratin 8) (Cytokeratin endo A) [R.norvegicus], ESTs, Moderately similar to I37982 Keratin 8 [H.sapiens], Homo sapiens mRNA; cDNA DKFZp434C107 (from clone DKFZp434C107), Homo sapiens mRNA; cDNA DKFZp762H106 (from clone DKFZp762H106), keratin 8, keratin complex 2, basic, gene 8
3643	1053	NM_022962	pp		DNA segment, Chr 17, ERATO Doi 479, expressed, EGF-like module containing, mucin-like, hormone receptor-like sequence 1, EST, Weakly similar to EMR1 MOUSE CELL SURFACE GLYCOPROTEIN EMR1 PRECURSOR [M.musculus], ESTs, Highly similar to lectomedin-2; KIAA0821 protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to EMR1 MOUSE CELL SURFACE GLYCOPROTEIN EMR1 PRECURSOR [M.musculus]
1028	21157	AA946189	l		DNA segment, Chr 17, ERATO Doi 663, expressed, Homo sapiens cDNA FLJ25377 fis, clone TST02084
4155	18293	NM_130433	o, ii, ss, xx		DNA segment, Chr 18, ERATO Doi 240, expressed, Mus musculus, Similar to hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit, clone MGC:7126 IMAGE:3158015, mRNA, complete cds, RIKEN cDNA 0610011L04 gene, acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase), t-complex protein 1, related sequence 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4343	21981	S75019	ss, vv		DNA segment, Chr 18, Wayne State University 181, expressed, aldehyde dehydrogenase 7 family, member A1, aldehyde dehydrogenase family 1, subfamily A2
2097	6732	AI169269	kk		DNA segment, Chr 18, Wayne State University 98, expressed, dim1 (S. pombe), expressed sequence AI595343, similar to S. pombe dim1+
1854	15080	AI102045	l		DNA segment, Chr 2, ERATO Doi 485, expressed, Mus musculus, Similar to conserved gene amplified in osteosarcoma, clone MGC:38258 IMAGE:5324816, mRNA, complete cds, RIKEN cDNA 2610507E10 gene, RIKEN cDNA 2810418J22 gene, conserved gene amplified in osteosarcoma
3690	10305	NM_030835	ee, ff		DNA segment, Chr 3, University of California at Los Angeles 1, ESTs, Moderately similar to stress-associated endoplasmic reticulum protein 1; ribosome asso; ribosome associated membrane protein 4 [Homo sapiens] [H.sapiens]
3690	10306	NM_030835	b, q, x, General, dd		DNA segment, Chr 3, University of California at Los Angeles 1, ESTs, Moderately similar to stress-associated endoplasmic reticulum protein 1; ribosome asso; ribosome associated membrane protein 4 [Homo sapiens] [H.sapiens]
3690	10308	NM_030835	l, q		DNA segment, Chr 3, University of California at Los Angeles 1, ESTs, Moderately similar to stress-associated endoplasmic reticulum protein 1; ribosome asso; ribosome associated membrane protein 4 [Homo sapiens] [H.sapiens]
3747	20812	NM_031100	y, ee		DNA segment, Chr 3, University of California at Los Angeles 2, EST, Weakly similar to RL10 MOUSE 60S RIBOSOMAL PROTEIN L10 [M.musculus], EST, Weakly similar to RL10_MOUSE 60S ribosomal protein L10 (QM protein homolog) [R.norvegicus], ribosomal protein 10, ribosomal protein L10, ribosomal protein L10-like

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title		
3754	16847	NM_031109	h, xx		DNA segment, Chr 4, ERATO Doi 429, expressed, EST, Weakly similar to 2113200G ribosomal protein S10 [H.sapiens], EST, Weakly similar to ribosomal protein S10 [H.sapiens], ESTs, Highly similar to 2113200G ribosomal protein S10 [H.sapiens], ESTs, Highly similar to RS10 RAT 40S RIBOSOMAL PROTEIN S10 [R.norvegicus], ESTs, Moderately similar to RIKEN cDNA 2210402A09 [Mus musculus] [M.musculus], RIKEN cDNA 2210402A09 gene, ribosomal protein S10		
4225	1373	NM_134468	n		DNA segment, Chr 6, ERATO Doi 263, expressed, ESTs, Moderately similar to S50193 Ca2+/calmodulin-dependent protein kinase (EC 2.7.1.123) I - rat [R.norvegicus], ESTs, Weakly similar to KCC4 MOUSE CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE TYPE IV CATALYTIC CHAIN [M.musculus], calcium/calmodulin-dependent protein kinase I, expressed sequence A1505105, pregnancy upregulated non-ubiquitously expressed CaM kinase, serine/threonine kinase PSKH2		
4289	23681	NM_144746	General, rr		DNA segment, Chr 7, ERATO Doi 753, expressed, ESTs, Highly similar to A38351 phosphoprotein phosphatase 2-alpha regulatory chain [H.sapiens], ESTs, Moderately similar to 2ABA_HUMAN SERINE/THREONINE PROTEIN PHOSPHATASE 2A, 55 KDA REGULATORY SUBUNIT B, ALPHA ISOFORM [H.sapiens], RIKEN cDNA 1300017E19 gene, protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform, uncharacterized hematopoietic stem/progenitor cells protein MDS026		
3604	21115	NM_022602	r, z, ss		DNA segment, Chr X, Celltech Chiroscience 3, Mus musculus, serine threonine kinase pim3, clone MGC:27707 IMAGE:4924687, mRNA, complete cds, pim-1 oncogene, pim-2 oncogene, proviral integration site 1		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1741	10999	AI071110	t		DNA segment, EST 1068184, EST, Weakly similar to A44437 regenerating liver inhibitory factor RL/IF-1 - rat [R.norvegicus], ESTs, Weakly similar to A44437 regenerating liver inhibitory factor RL/IF-1 - rat [R.norvegicus], ESTs, Weakly similar to T42713 ankyrin 3, splice form 1 - mouse [M.musculus], Homo sapiens, Similar to GA binding protein transcription factor, beta subunit 1 (53kD), clone MGC:29891 IMAGE:5139830, mRNA, complete cds, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, testis-specific ankyrin motif containing protein
3769	23097	NM_031145	h, bb		DNA-dependent protein kinase catalytic subunit-interacting protein 3, EST, Moderately similar to A Chain A, Homology-Based Model Of Apo Cib [H.sapiens], ESTs, Weakly similar to CIB_HUMAN SNK INTERACTING PROTEIN 2-28 [H.sapiens], ESTs, Weakly similar to KIP1_RAT DNA-PKcs interacting protein (Kinase interacting protein) (KIP) (Calcium and integrin-binding protein) (CIB) [R.norvegicus], Mus musculus, Similar to protein kinase, DNA activated, catalytic polypeptide interacting protein, clone MGC:7098 IMAGE:3157513, mRNA, complete cds, RIKEN cDNA 1700041E20 gene, calcium and integrin binding 1 (calmyrin)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
411	16318	AA859648	c		DnaJ (Hsp40) homolog, subfamily A, member 1, DnaJ (Hsp40) homolog, subfamily A, member 4, DnaJ (Hsp40) homolog, subfamily B, member 1, DnaJ (Hsp40) homolog, subfamily B, member 12, ESTs, Weakly similar to DJA1_MOUSE DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein homolog 2) (HSJ-2) [R.norvegicus], ESTs, Weakly similar to HSJ2_HUMAN DNAJ PROTEIN HOMOLOG 2 [H.sapiens], Homo sapiens cDNA FLJ13992 fis, clone Y79AA1002139, weakly similar to DNAJ PROTEIN HOMOLOG 1, RIKEN cDNA 1700014P03 gene, RIKEN cDNA 2010306G19 gene, RIKEN cDNA 5730551F12 gene, similar to MRJ gene for a member of the DNAJ protein family (H. sapiens)
126	6892	AA800551	p		DnaJ (Hsp40) homolog, subfamily A, member 1, DnaJ (Hsp40) homolog, subfamily A, member 4, ESTs, Highly similar to HS44 MOUSE HEAT SHOCK 40 KDA PROTEIN 4 [M.musculus], ESTs, Moderately similar to DJA1_MOUSE DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein homolog 2) (HSJ-2) [R.norvegicus], ESTs, Weakly similar to DnaJ-like protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to HS44 MOUSE HEAT SHOCK 40 KDA PROTEIN 4 [M.musculus], Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 730912, Mus musculus SEC63 (Sec63) mRNA, complete cds, similar to DNAJ



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3631	6891	NM_022934	t, gg, hh		DnaJ (Hsp40) homolog, subfamily A, member 1, DnaJ (Hsp40) homolog, subfamily A, member 4, ESTs, Highly similar to HS44 MOUSE HEAT SHOCK 40 KDA PROTEIN 4 [M.musculus], ESTs, Moderately similar to DJA1_MOUSE DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein homolog 2) (HSJ-2) [R.norvegicus], ESTs, Weakly similar to DnaJ-like protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to HS44 MOUSE HEAT SHOCK 40 KDA PROTEIN 4 [M.musculus], Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 730912, Mus musculus SEC63 (Sec63) mRNA, complete cds, similar to DnaJ
855	5019	AA924768	b		DnaJ (Hsp40) homolog, subfamily A, member 2, DnaJ (Hsp40) homolog, subfamily B, member 2, DnaJ (Hsp40) homolog, subfamily B, member 6, RIKEN cDNA 2810451A06 gene, RIKEN cDNA 4930483N21 gene, RIKEN cDNA 5730496F10 gene, expressed sequence AI506245
2622	8709	AI232534	ii		DnaJ (Hsp40) homolog, subfamily B, member 3, DnaJ (Hsp40) homolog, subfamily B, member 6, RIKEN cDNA 2810451A06 gene, expressed sequence AI506245, expressed sequence AU020082
3663	220	NM_024161	c, m		DnaJ (Hsp40) homolog, subfamily C, member 5, ESTs, Weakly similar to CSP MOUSE CYSTEINE STRING PROTEIN [M.musculus], RIKEN cDNA 1700008A05 gene, RIKEN cDNA 1700025B16 gene, beta cysteine string protein
2122	18367	AI170064	j		Down syndrome critical region gene 2, Down syndrome critical region homolog 2 (human)
2619	14051	AI232489	w, z, dd, ee		dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4370	399	U31668	ww, xx		E2F transcription factor 4, p107/p130-binding, E2F transcription factor 5, E2F transcription factor 5, p130-binding, ESTs, Moderately similar to E2F5 MOUSE TRANSCRIPTION FACTOR E2F5 [M.musculus], ESTs, Moderately similar to E2F5_RAT TRANSCRIPTION FACTOR E2F5 (E2F-5) [R.norvegicus], Mus musculus, Similar to E2F transcription factor 4, p107/p130-binding, clone MGC:37558 IMAGE:4987691 mRNA complete cds
1955	24375	AI104979	q, z, dd, ee		EBNA1 binding protein 2, ESTs, Moderately similar to EBNA1 binding protein 2; nucleolar protein p40; homolog of yeast EBNA1-binding protein; nuclear FGF3 binding protein; EBNA1-binding protein 2 [Homo sapiens] [H.sapiens]
3616	17586	NM_022694	u, ff		EBNA-2 co-activator (100kD), ESTs, Moderately similar to I38968 100 kDa coactivator [H.sapiens], staphylococcal nuclease domain containing 1
3616	17587	NM_022694	u, w		EBNA-2 co-activator (100kD), ESTs, Moderately similar to I38968 100 kDa coactivator [H.sapiens], staphylococcal nuclease domain containing 1
3494	20057	NM_019370	General, nn		ectonucleotide pyrophosphatase/phosphodiesterase 1, ectonucleotide pyrophosphatase/phosphodiesterase 3
1012	17721	AA945762	General		EHM2 gene, EST, Weakly similar to 2102279A protein Tyr phosphatase [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to NBL4 MOUSE BAND 4.1-LIKE PROTEIN 4 [M.musculus], ESTs, Weakly similar to YF48_HUMAN HYPOTHETICAL PROTEIN KIAA1548 [H.sapiens], KIAA1548 protein, Mus musculus, Similar to EHM2 gene, clone MGC:7330 IMAGE:3486543, mRNA, complete cds, erythrocyte protein band 4.1-like 4a, protein tyrosine phosphatase 2E, protein tyrosine phosphatase, non-receptor type 14, protein tyrosine phosphatase, non-receptor type 21

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
623	19226	AA892394	a		ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B), ELAV (embryonic lethal, abnormal vision, Drosophila)-like 3 (Hu antigen C), ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D), ESTs, Highly similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus], ESTs, Moderately similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus]
623	19227	AA892394	a, w		ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B), ELAV (embryonic lethal, abnormal vision, Drosophila)-like 3 (Hu antigen C), ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D), ESTs, Highly similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus], ESTs, Moderately similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus]
868	10666	AA925212	kk		ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B), ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D), ESTs, Highly similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus], ESTs, Moderately similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus], ESTs, Moderately similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], ESTs, Weakly similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], RIKEN cDNA 4932702K14 gene, poly A binding protein, cytoplasmic 1, poly(A) binding protein, cytoplasmic 4 (inducible form)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2742	10667	AI236366	dd		ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B), ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D), ESTs, Highly similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus], ESTs, Moderately similar to ELV4_RAT ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D) [R.norvegicus], ESTs, Moderately similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], ESTs, Weakly similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], RIKEN cDNA 4932702K14 gene, poly A binding protein, cytoplasmic 1, poly(A) binding protein, cytoplasmic 4 (inducible form)
2406	17358	AI179147	b, ii, pp		electron-transfer-flavoprotein, beta polypeptide
2277	17920	AI176422	n, kk, pp		electron-transferring-flavoprotein dehydrogenase
2277	17921	AI176422	p, kk		electron-transferring-flavoprotein dehydrogenase
3525	19696	NM_021699	l, nn		ELKL motif kinase, ESTs, Weakly similar to PUTATIVE SERINE/THREONINE-PROTEIN KINASE EMK [M.musculus], Mus musculus ELKL motif serine-threonine protein kinase 3 (Emk3) mRNA, complete cds, NIMA (never in mitosis gene a)-related expressed kinase 2, NIMA (never in mitosis gene a)-related kinase 2, RIKEN cDNA 2410090P21 gene, Unc-51 like kinase 2 (C. elegans), maternal embryonic leucine zipper kinase, serine/threonine kinase 22D (nerminogenesis associated)
1560	7913	AI043849	ff		ELL-related RNA polymerase II, elongation factor, ESTs, Weakly similar to ELL MOUSE RNA POLYMERASE II ELONGATION FACTOR ELL [M.musculus], Mus musculus, clone IMAGE:3583970, mRNA, partial cds, RIKEN cDNA 9430098E02 gene, eleven-nineteen lysine-rich leukemia gene, hypothetical protein FLJ22637
2669	7243	AI233717	z, ee		embryonic ectoderm development

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
559	6535	AA891746	r		endothelial differentiation-related factor 1, expressed sequence AA409425
3183	18694	NM_012931	mm		enhancer of filamentation 1 (cas-like docking; Crk-associated substrate related), expressed sequence AI385681, neural precursor cell expressed, developmentally down-regulated gene 9, signal transduction protein (SH3 containing), v-crk-associated tyrosine kinase substrate
4090	16190	NM_053961	o		Enoyl-CoA hydratase, short chain 1, mitochondrial, Homo sapiens hepatocellular carcinoma-associated antigen 64 (HCA64) mRNA, complete cds, RIKEN cDNA 1300014E15 gene, RIKEN cDNA 1300017C12 gene, RIKEN cDNA 1810022C23 gene, RIKEN cDNA 2010015A21 gene, RIKEN cDNA 4930453I21 gene, enoyl Coenzyme A hydratase, short chain, 1, mitochondrial, hypothetical protein FLJ10948, peroxisomal delta3, delta2-enoyl-Coenzyme A isomerase
627	23194	AA892417	c		ephrin A1, ephrin-A1
4013	1390	NM_053599	c, p, v		ephrin A1, ephrin-A1
3693	21509	NM_030847	f		epithelial membrane protein 3
522	11889	AA875641	k		EPS8 related protein 2, epidermal growth factor receptor pathway substrate 8 related protein 1, epidermal growth factor receptor pathway substrate 8 related protein 3
3592	8597	NM_022538	h, l		ER transmembrane protein Dri 42, RIKEN cDNA 1810019D05 gene, phosphatidic acid phosphatase 2a, phosphatidic acid phosphatase type 2A, phosphatidic acid phosphatase type 2B, phosphatidic acid phosphatase type 2C, phosphatidic acid phosphatase type 2c
3592	8598	NM_022538	d		ER transmembrane protein Dri 42, RIKEN cDNA 1810019D05 gene, phosphatidic acid phosphatase 2a, phosphatidic acid phosphatase type 2A, phosphatidic acid phosphatase type 2B, phosphatidic acid phosphatase type 2C, phosphatidic acid phosphatase type 2c

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
804	18547	AA900722	ii		ERM-binding phosphoprotein, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 1, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 2, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 2
3503	16	NM_019386	b, l, q, General, dd, kk		erythrocyte membrane protein band 4.2, transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase), transglutaminase 2, C polypeptide, transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase), transglutaminase 3, E polypeptide, transglutaminase 5, transglutaminase 7
3740	4683	NM_031083	d, f		EST AA437822, Homo sapiens, Similar to phosphatidylinositol 4-kinase, catalytic, alpha polypeptide, clone MGC:31920 IMAGE:4565073, mRNA, complete cds, phosphatidylinositol 4-kinase, catalytic, alpha polypeptide, phosphatidylinositol 4-kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, catalytic, gamma polypeptide
3740	4684	NM_031083	k		EST AA437822, Homo sapiens, Similar to phosphatidylinositol 4-kinase, catalytic, alpha polypeptide, clone MGC:31920 IMAGE:4565073, mRNA, complete cds, phosphatidylinositol 4-kinase, catalytic, alpha polypeptide, phosphatidylinositol 4-kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, catalytic, gamma polypeptide
3737	24508	NM_031073	nn		EST AI316846, neurotrophin 3
1415	21796	AI012221	vv		EST X83352; ESTs, Weakly similar to intracellular chloride ion channel protein p64H1 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 5730531E12 gene, chloride intracellular channel 1, chloride intracellular channel 3, chloride intracellular channel 4 (mitochondrial), intracellular chloride ion channel protein p64H1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1794	21797	AI072439	qq		EST X83352, ESTs, Weakly similar to intracellular chloride ion channel protein p64H1 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 5730531E12 gene, chloride intracellular channel 1, chloride intracellular channel 3, chloride intracellular channel 4 (mitochondrial), intracellular chloride ion channel protein p64H1
3595	12606	NM_022547	General, vv		EST, Highly similar to 10-formyltetrahydrofolate dehydrogenase [Rattus norvegicus] [R.norvegicus], EST, Highly similar to FTDH_HUMAN 10-FORMYLTETRAHYDROFOLATE DEHYDROGENASE [H.sapiens], ESTs, Moderately similar to 10-formyltetrahydrofolate dehydrogenase [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to FTDH_HUMAN 10-FORMYLTETRAHYDROFOLATE DEHYDROGENASE [H.sapiens], RIKEN cDNA 1810048F20 gene, RIKEN cDNA 2310020P08 gene, aldehyde dehydrogenase family 1, subfamily A7, formyltetrahydrofolate dehydrogenase
3109	7101	NM_012679	nn		EST, Highly similar to Clusterin; Testosterone-repressed prostate message 2 [Rattus norvegicus] [R.norvegicus], clusterin, clusterin (complement lysis inhibitor, SP-40,40, sulfated glycoprotein 2, testosterone-repressed prostate message 2, apolipoprotein J)
3478	10016	NM_019289	v, x		EST, Highly similar to AR41_HUMAN ARP2/3 COMPLEX 41 KDA SUBUNIT [H.sapiens], actin related protein 2/3 complex, subunit 1B (41 kD), actin related protein 2/3 complex, subunit 1B (41 kDa)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3729	15137	NM_031051	w, y, ee, tt		EST, Highly similar to C Chain C, Macrophage Migration Inhibitory Factor [H.sapiens], EST, Moderately similar to C Chain C, Macrophage Migration Inhibitory Factor [H.sapiens], EST, Moderately similar to MIF_RAT Macrophage migration inhibitory factor (MIF) (Phenylpyruvate tautomerase) (Glutathione-binding 13 kDa protein) [R.norvegicus], ESTs, Moderately similar to MIF_HUMAN MACROPHAGE MIGRATION INHIBITORY FACTOR [H.sapiens], macrophage migration inhibitory factor, macrophage migration inhibitory factor (glycosylation-inhibiting factor)
1662	8584	AI058911	cc, ii, rr		EST, Highly similar to FIBA_RAT Fibrinogen alpha/alpha-E chain precursor [R.norvegicus], Homo sapiens clone HQ0582, angiopoietin 2, angiopoietin-like 3, expressed sequence AI303526, fibrinogen, A alpha polypeptide, fibrinogen, alpha polypeptide, fibrinogen, gamma polypeptide
3245	22582	NM_013120	b, kk		EST, Highly similar to GCKR RAT GLUCOKINASE REGULATORY PROTEIN [R.norvegicus], Mus musculus, Similar to Glucokinase regulatory protein, clone MGC:19300 IMAGE:4159892, mRNA, complete cds, glucokinase (hexokinase 4) regulatory protein
434	22593	AA859977	tt		EST, Highly similar to HS9B MOUSE HEAT SHOCK PROTEIN HSP 90-BETA [M.musculus], EST, Weakly similar to HHMS84 heat shock protein 84 - mouse [M.musculus], ESTs, Highly similar to HS9A_HUMAN HEAT SHOCK PROTEIN HSP 90-ALPHA [H.sapiens], ESTs, Highly similar to T46243 hypothetical protein DKFZp761K0511.1 [H.sapiens], expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, heat shock protein, 86 kDa 1



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2764	15850	AI236795	b, tt		EST, Highly similar to HS9B MOUSE HEAT SHOCK PROTEIN HSP 90-BETA [M.musculus], EST, Weakly similar to HHMS84 heat shock protein 84 - mouse [M.musculus], ESTs, Highly similar to HS9A_HUMAN HEAT SHOCK PROTEIN HSP 90-ALPHA [H.sapiens], ESTs, Highly similar to T46243 hypothetical protein DKFZp761K0511.1 [H.sapiens], expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, heat shock protein 86 kDa 1
1041	643	AA946439	c, ii, tt		EST, Highly similar to HSRT4 histone H4 - rat [R.norvegicus], EST, Moderately similar to HSHU4 histone H4 [H.sapiens], H4 histone family, member E, Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone:1810029H14:histone 4 protein, full insert sequence, Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310067E17:histone 4 protein, full insert sequence
4097	19544	NM_053982	h, i, qq		EST, Highly similar to JC2234 ribosomal protein S15a, cytosolic [validated] - rat [R.norvegicus], ESTs, Highly similar to RS1A_HUMAN 40S RIBOSOMAL PROTEIN S15A [H.sapiens], Homo sapiens cDNA FLJ13026 fis, clone NT2RP3000968, moderately similar to 40S RIBOSOMAL PROTEIN S15A
4097	15468	NM_053982	h, gg, hh		EST, Highly similar to JC2234 ribosomal protein S15a, cytosolic [validated] - rat [R.norvegicus], ESTs, Highly similar to RS1A_HUMAN 40S RIBOSOMAL PROTEIN S15A [H.sapiens]; ribosomal protein S15a

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4313	16963	NM_147214	r, ee		EST, Highly similar to JH0628 caldesmon [H.sapiens], ESTs, Highly similar to A38351 phosphoprotein phosphatase 2-alpha regulatory chain [H.sapiens], ESTs, Weakly similar to JC5314 CDC28/cdc2-like kinase associating arginine-serine cyclophilin [H.sapiens], Mus musculus, Similar to Caldesmon 1, clone MGC:30319 IMAGE:5148205, mRNA, complete cds, RIKEN cDNA 2410004D02 gene, RIKEN cDNA 4833423D12 gene, caldesmon 1, major urinary protein 4, protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52) alpha isoform
2733	11465	AI236084	q		EST, Highly similar to JT0752 lymphocyte activation-induced receptor ILA precursor [H.sapiens], tumor necrosis factor receptor superfamily, member 9
547	2753	AA891589	e		EST, Highly similar to M2GD_HUMAN DIMETHYLGLYCINE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR [H.sapiens], ESTs, Weakly similar to DIMETHYLGLYCINE DEHYDROGENASE PRECURSOR [R.norvegicus], RIKEN cDNA 1200014D15 gene, dimethylglycine dehydrogenase precursor, expressed sequence AW495222, hypothetical protein FLJ10079
4274	17684	NM_139102	d, h, uu		EST, Highly similar to M2GD_HUMAN DIMETHYLGLYCINE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR [H.sapiens], ESTs, Weakly similar to DIMETHYLGLYCINE DEHYDROGENASE PRECURSOR [R.norvegicus], RIKEN cDNA 1200014D15 gene, dimethylglycine dehydrogenase precursor, expressed sequence AW495222, hypothetical protein FLJ10079, sarcosine dehydrogenase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1322	21838	AI009131	ee, kk		EST, Highly similar to MYHA_RAT Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [R.norvegicus], ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], Homo sapiens cDNA: FLJ23324 fis, clone HEP12482, highly similar to HUMMYOHC B Human nonmuscle myosin heavy chain-B (MYH10) mRNA, Myosin heavy chain 11, RIKEN cDNA 5730504C04 gene, laminin, gamma 1
1762	21839	AI071644	f		EST, Highly similar to MYHA_RAT Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [R.norvegicus], ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], Homo sapiens cDNA: FLJ23324 fis, clone HEP12482, highly similar to HUMMYOHC B Human nonmuscle myosin heavy chain-B (MYH10) mRNA, Myosin heavy chain 11, RIKEN cDNA 5730504C04 gene, laminin, gamma 1
4473	18031	X94551	y		EST, Highly similar to MYHA_RAT Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [R.norvegicus], ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], Homo sapiens cDNA: FLJ23324 fis, clone HEP12482, highly similar to HUMMYOHC B Human nonmuscle myosin heavy chain-B (MYH10) mRNA, Myosin heavy chain 11, RIKEN cDNA 5730504C04 gene, laminin, gamma 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3602	21023	NM_022599	h, l, General		EST, Highly similar to OM25_RAT MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (NPW16) [R.norvegicus], EST, Weakly similar to OM25_RAT Mitochondrial outer membrane protein 25 (NPW16) [R.norvegicus], hypothetical protein FLJ11271, synaptojanin 2 binding protein
4455	20844	X65228	y, ll		EST, Highly similar to R3RT3A ribosomal protein L23a, cytosolic [validated] - rat [R.norvegicus], EST, Weakly similar to E54024 protein kinase [H.sapiens], ESTs, Highly similar to 60S RIBOSOMAL PROTEIN L23A [R.norvegicus], ESTs, Highly similar to RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A [H.sapiens], Mus musculus, ribosomal protein L23a, clone IMAGE:4988735, mRNA, partial cds, ribosomal protein L 23a
649	15876	AA892582	l, General		EST, Highly similar to RL8_HUMAN 60S ribosomal protein L8 [R.norvegicus], EST, Weakly similar to JN0923 ribosomal protein L8, cytosolic [H.sapiens], ESTs, Highly similar to R5RTL8 ribosomal protein L8, cytosolic [validated] - rat [R.norvegicus], ESTs, Highly similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], ESTs, Moderately similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], expressed sequence AI 024098, ribosomal protein L 8
117	21665	AA800272	e, s		EST, Highly similar to RM03_RAT Mitochondrial 60S ribosomal protein L3 [R.norvegicus], mitochondrial ribosomal protein L3
2337	14910	AI177631	z		EST, Highly similar to S20898 titin [H.sapiens], ESTs, Weakly similar to 2020397A C protein [M.musculus], ESTs, Weakly similar to MYPC MOUSE MYOSIN- BINDING PROTEIN C, CARDIAC-TYPE [M.musculus], Homo sapiens cDNA FLJ32722 fis, clone TESTI2000883, highly similar to MYOSIN-BINDING PROTEIN C, SLOW-TYPE, Mus musculus, clone IMAGE:5009820, mRNA, partial cds

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
316	14324	AA850402	n		EST, Highly similar to S21348 probable pol polyprotein-related protein 4 - rat [R.norvegicus], ESTs, Highly similar to POL2 MOUSE RETROVIRUS-RELATED POL POLYPROTEIN [M.musculus], ESTs, Highly similar to S21348 probable pol polyprotein-related protein 4 - rat [R.norvegicus], ESTs, Moderately similar to S21348 probable pol polyprotein-related protein 4 - rat [R.norvegicus], Homo sapiens cDNA: FLJ22714 fis, clone HSI13646, Homo sapiens mRNA; cDNA DKFZp547C014 (from clone DKFZp547C014), Human kpnI repeat mna (cdna clone pcd-kpnI-8), 3' end, Mus musculus, Similar to hypothetical protein FLJ10134, clone MGC:25912 IMAGE:4221959, mRNA, complete cds, RIKEN cDNA 4933411E06 gene, RIKEN cDNA 6820402I19 gene, colon and small intestine-specific cysteine-rich protein precursor, smooth muscle cell-expressed and macrophage conditioned medium-
2566	21816	AI231217	ee		EST, Highly similar to S611_HUMAN Protein transport protein Sec61 alpha subunit isoform 1 (Sec61 alpha-1) [R.norvegicus], ESTs, Highly similar to S611_HUMAN Protein transport protein Sec61 alpha subunit isoform 1 (Sec61 alpha- 1) [R.norvegicus], SEC61, alpha subunit (S. cerevisiae), SEC61, alpha subunit 2 (S. cerevisiae), Sec61 alpha form 2, protein transport protein SEC61 alpha subunit isoform 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2398	12033	AI179066	ee		EST, Highly similar to SL52_RAT SODIUM/GLUCOSE COTRANSPORTER 2 (NA(+)/GLUCOSE COTRANSPORTER 2) (LOW AFFINITY SODIUM-GLUCOSE COTRANSPORTER) [R.norvegicus], ESTs, Highly similar to 1909123A Na glucose cotransporter [H.sapiens], ESTs, Moderately similar to SL52_HUMAN SODIUM/GLUCOSE COTRANSPORTER 2 [H.sapiens], ESTs, Weakly similar to 1909123A Na glucose cotransporter [H.sapiens], Homo sapiens cDNA FLJ25217 fis, clone REC08938, highly similar to Oryctolagus cuniculus Na+/glucose cotransporter-related protein mRNA, Homo sapiens, clone IMAGE:4827595, mRNA; hypothetical protein FLJ13868, solute carrier family 5 (choline transporter), protein
686	3439	AA893000	o		EST, Highly similar to T00335 hypothetical protein KIAA0564 [H.sapiens], KIAA0564 protein
3486	16697	NM_019349	s		EST, Highly similar to T34021 protein kinase SK2 - rat [R.norvegicus], ESTs, Moderately similar to T14157 serine/threonine protein kinase - mouse [M.musculus], Homo sapiens CTCL tumor antigen se20-9 mRNA, complete cds, Mus musculus, clone MGC:29021-IMAGE:3495957, mRNA, complete cds, Ste20-related serine/threonine kinase, serine/threonine kinase 2
3486	16698	NM_019349	u		EST, Highly similar to T34021 protein kinase SK2 - rat [R.norvegicus], ESTs, Moderately similar to T14157 serine/threonine protein kinase - mouse [M.musculus], Homo sapiens CTCL tumor antigen se20-9 mRNA, complete cds, Mus musculus, clone MGC:29021 IMAGE:3495957, mRNA, complete cds, Ste20-related serine/threonine kinase, serine/threonine kinase 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1084	25112	AA956437	d		EST, Highly similar to TERA HUMAN [H.sapiens], EST, Moderately similar to PEX1_HUMAN PEROXISOME BIOGENESIS FACTOR 1 [H.sapiens], EST, Weakly similar to T46437 hypothetical protein DKFZp434K0126.1 [H.sapiens], ESTs, Weakly similar to T46437 hypothetical protein DKFZp434K0126.1 [H.sapiens], ESTs, Weakly similar to TERA MOUSE TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE [M.musculus], ESTs, Weakly similar to TERA_RAT TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE (TER ATPASE) (15S MG(2+)-ATPASE P97 SUBUNIT) (VALOSIN CONTAINING PROTEIN) (VCP) [CONTAINS: VALOSIN] [R.norvegicus]
3730	11899	NM_031052	rr		EST, Moderately similar to mitochondrial intermediate peptidase [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 5730405E07 gene, mitochondrial intermediate peptidase, thimet oligopeptidase 1
168	23115	AA801165	d		EST, Moderately similar to RIKEN cDNA 1700113O17 [Mus musculus] [M.musculus], H2A histone family, member L, Homo sapiens, clone MGC:21597 IMAGE:4511035, mRNA, complete cds, Mus musculus, similar to H2A histone family, member O, clone MGC:36202 IMAGE:5055276, mRNA, complete cds, expressed sequence R75370
3760	16671	NM_031125	tt		EST, Moderately similar to syntaxin 4 [Rattus norvegicus] [R.norvegicus], syntaxin 4A (placental)
3765	15487	NM_031137	q, ww		EST, Moderately similar to tripeptidylpeptidase II [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to TRIPEPTIDYL-PEPTIDASE II [M.musculus], tripeptidyl peptidase II
3765	15489	NM_031137	bb, ll, ww		EST, Moderately similar to tripeptidylpeptidase II [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to TRIPEPTIDYL-PEPTIDASE II [M.musculus], tripeptidyl peptidase II

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1670	14984	AI059174	h		EST, Moderately similar to 0806162B cytochrome b [M.musculus], EST, Moderately similar to 810024B cytochrome b [H.sapiens], EST, Weakly similar to 0806162B cytochrome b [M.musculus], EST, Weakly similar to 0812187A cytochrome b [Rattus norvegicus] [R.norvegicus], EST, Weakly similar to 810024M URF 6 [H.sapiens]
1896	14981	AI103396	ee		EST, Moderately similar to 0806162B cytochrome b [M.musculus], EST, Moderately similar to 810024B cytochrome b [H.sapiens], EST, Weakly similar to 0806162B cytochrome b [M.musculus], EST, Weakly similar to 0812187A cytochrome b [Rattus norvegicus] [R.norvegicus], EST, Weakly similar to 810024M URF 6 [H.sapiens]
372	14987	AA858640			EST, Moderately similar to 0806162B cytochrome b [M.musculus], EST, Moderately similar to 810024B cytochrome b [H.sapiens], EST, Weakly similar to 0806162B cytochrome b [M.musculus], EST, Weakly similar to 0812187A cytochrome b [Rattus norvegicus] [R.norvegicus], EST, Weakly similar to 810024M URF 6 [H.sapiens], ESTs, Highly similar to CH60_HUMAN 60 KDA HEAT SHOCK PROTEIN, MITOCHONDRIAL PRECURSOR [H.sapiens], ESTs, Moderately similar to CH60 MOUSE 60 KDA HEAT SHOCK PROTEIN, MITOCHONDRIAL PRECURSOR [M.musculus], ESTs, Weakly similar to CH60_HUMAN 60 KDA HEAT SHOCK PROTEIN, MITOCHONDRIAL PRECURSOR [H.sapiens], heat shock 60kD protein 1 (chaperonin), heat shock protein, 60 kD



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
323	16132	AA850885	ee		EST, Moderately similar to 0806162C protein COI [M.musculus], EST, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI [M.musculus]
1310	4233	AI008409	h		EST, Moderately similar to 0806162C protein COI [M.musculus], EST, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI [M.musculus]
3987	16133	NM_053516	dd, jj		EST, Moderately similar to 0806162C protein COI [M.musculus], EST, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI [M.musculus]
408	17142	AA859612	gg, hh		EST, Moderately similar to 0806162J protein URF4 [M.musculus], EST, Moderately similar to 810024J URF 4 [H.sapiens], EST, Weakly similar to 0806162J protein URF4 [M.musculus], EST, Weakly similar to 810024J URF 4 [H.sapiens], ESTs, Moderately similar to 0806162J protein URF4 [M.musculus], ESTs, Moderately similar to 810024J URF 4 [H.sapiens], ESTs, Weakly similar to 0806162J protein URF4 [M.musculus]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2216	23325	AI172405	bb		EST, Moderately similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus], EST, Moderately similar to SET_HUMAN SET PROTEIN [H.sapiens], ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], ESTs, Moderately similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus], SET translocation, SET translocation (myeloid leukemia-associated), cutaneous T-cell lymphoma-associated tumor antigen se20-4; differentially expressed nucleolar TGF-beta1 target protein (DENND1)
4070	1570	NM_053857	k, l, m, General		EST, Moderately similar to 2021415A initiation factor 4E-binding protein:ISOTYPE=1 [H.sapiens], ESTs, Weakly similar to A55258 insulin-stimulated phosphoprotein PHAS-I - rat [R.norvegicus], RIKEN cDNA 1110004O12 gene, eukaryotic translation initiation factor 4E binding protein 1, eukaryotic translation initiation factor 4E binding protein 2, eukaryotic translation initiation factor 4E binding protein 3
4070	1571	NM_053857	l, m, q, General, dd		EST, Moderately similar to 2021415A initiation factor 4E-binding protein:ISOTYPE=1 [H.sapiens], ESTs, Weakly similar to A55258 insulin-stimulated phosphoprotein PHAS-I - rat [R.norvegicus], RIKEN cDNA 1110004O12 gene, eukaryotic translation initiation factor 4E binding protein 1, eukaryotic translation initiation factor 4E binding protein 2, eukaryotic translation initiation factor 4E binding protein 3
4448	15387	X62482	h, gg, hh		EST, Moderately similar to 40S RIBOSOMAL PROTEIN S25 [R.norvegicus], EST, Moderately similar to R3RT25 ribosomal protein S25, cytosolic [validated] - rat [R.norvegicus], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S25 [R.norvegicus], EST, Weakly similar to JQ1347 ribosomal protein S25, cytosolic [H.sapiens], ESTs, Highly similar to JQ1347 ribosomal protein S25, cytosolic [H.sapiens], ribosomal protein S25

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3767	15185	NM_031140	s, ii		EST, Moderately similar to A25074 vimentin [H.sapiens], EST, Weakly similar to A25074 vimentin [H.sapiens], ESTs, Weakly similar to A25074 vimentin [H.sapiens], Mus musculus, similar to FLJ00074 protein, clone MGC:36549 IMAGE:4952810, mRNA, complete cds, desmuslin, intermediate filament-like MGC:2625, vimentin
1802	1501	A1072634	e, l, t, bb, dd, ww		EST, Moderately similar to A40452 keratin 21, type I, cytoskeletal - rat [R.norvegicus], ESTs, Weakly similar to A40452 keratin 21, type I, cytoskeletal - rat [R.norvegicus], RIKEN cDNA 9030623C06 gene, Rat cytokeratin 21 mRNA, complete cds, keratin 18, keratin complex 1, acidic, gene 18
3455	1386	NM_019226	d		EST, Moderately similar to A49019 dynein heavy chain, cytosolic [H.sapiens], ESTs, Weakly similar to DYHC_MOUSE DYNEIN HEAVY CHAIN, CYTOSOLIC (DYHC) (CYTOPLASMIC DYNEIN HEAVY CHAIN) [M.musculus], Homo sapiens cDNA FLJ13685 fis, clone PLACE2000039, highly similar to DYNEIN HEAVY CHAIN, CYTOSOLIC, Homo sapiens cDNA FLJ32360 fis, clone PROST2009022, dynein, axon, heavy chain 11, dynein, axonemal, heavy polypeptide 11, dynein, cytoplasmic, heavy chain 1, dynein, cytoplasmic, heavy polypeptide 1, hypothetical protein FLJ11756

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1548	23949	AI031019	q		EST, Moderately similar to A55146 guanine nucleotide exchange factor eIF-2B delta chain, long form - mouse [M.musculus], ESTs, Moderately similar to E2BA_HUMAN TRANSLATION INITIATION FACTOR EIF-2B ALPHA SUBUNIT [H.sapiens], ESTs, Weakly similar to 2112359A initiation factor eIF-2B [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to eukaryotic translation initiation factor 2B, subunit 1 (alpha, 26kD), clone MGC:6458 IMAGE:2615801, mRNA, complete cds, Mus musculus, Similar to eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD), clone MGC:7057 IMAGE:3156632, mRNA, complete cds, RIKEN cDNA 2410018C20 gene, eukaryotic translation initiation factor 2B, subunit 1 (alpha, 26kD)
1548	23950	AI031019	n, q, x, ll		EST, Moderately similar to A55146 guanine nucleotide exchange factor eIF-2B delta chain, long form - mouse [M.musculus], ESTs, Moderately similar to E2BA_HUMAN TRANSLATION INITIATION FACTOR EIF-2B ALPHA SUBUNIT [H.sapiens], ESTs, Weakly similar to 2112359A initiation factor eIF-2B [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to eukaryotic translation initiation factor 2B, subunit 1 (alpha, 26kD), clone MGC:6458 IMAGE:2615801, mRNA, complete cds, Mus musculus, Similar to eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD), clone MGC:7057 IMAGE:3156632, mRNA, complete cds, RIKEN cDNA 2410018C20 gene, eukaryotic translation initiation factor 2B, subunit 1 (alpha, 26kD)
2320	14384	AI177096	e		EST, Moderately similar to APT_RAT ADENINE PHOSPHORIBOSYLTRANSFERASE (APRT) [R.norvegicus], adenine phosphoribosyl transferase, adenine phosphoribosyltransferase, expressed sequence C85684

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4322	7789	NM_153630	d		EST, Moderately similar to CCAD MOUSE VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [M.musculus], ESTs, Moderately similar to T17101 probable voltage-activated cation channel - rat [R.norvegicus], ESTs, Weakly similar to CCAD MOUSE VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [M.musculus], Homo sapiens cDNA: FLJ22153 fis, clone HRC00149, Mus musculus sperm ion channel mRNA, complete cds, RIKEN cDNA 8430418G19 gene, calcium channel, voltage-dependent, L type, alpha 1D subunit, novel protein (ortholog of rat four repeat ion channel)
2229	7740	AI175011	vv		EST, Moderately similar to COF1_HUMAN COFILIN, NON-MUSCLE ISOFOR [H.sapiens], EST, Weakly similar to COF1_HUMAN COFILIN, NON-MUSCLE ISOFOR [H.sapiens], ESTs, Highly similar to DEST_HUMAN DESTRAIN [H.sapiens], ESTs, Moderately similar to COF1_HUMAN COFILIN, NON-MUSCLE ISOFOR [H.sapiens], Homo sapiens cDNA FLJ30934 fis, clone FEBRA2007017, moderately similar to Homo sapiens TRAF4-associated factor 2 mRNA
3490	23226	NM_019360	v, y, gg, hh		EST, Moderately similar to COXI_MOUSE Cytochrome c oxidase polypeptide VIC-2 [R.norvegicus], ESTs, Moderately similar to COXH_HUMAN CYTOCHROME C OXIDASE POLYPEPTIDE VIC PRECURSOR [H.sapiens], cytochrome c oxidase subunit Vic, cytochrome c oxidase, subunit Vic

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4386	15516	U68544	b		EST, Moderately similar to CYPM_RAT Peptidyl-prolyl cis-trans isomerase, mitochondrial precursor (PPlase) (Rotamase) (Cyclophilin F) [R.norvegicus], ESTs, Highly similar to CYPH MOUSE PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A [M.musculus], ESTs, Weakly similar to CYPM_RAT Peptidyl-prolyl cis-trans isomerase, mitochondrial precursor (PPlase) (Rotamase) (Cyclophilin F) [R.norvegicus], RIKEN cDNA 2510026K04 gene, RIKEN cDNA 4930520F12 gene, expressed sequence AI256741, expressed sequence AW457192, peptidylprolyl isomerase A, peptidylprolyl isomerase E (cyclophilin E), peptidylprolyl isomerase F (cyclophilin F)
2588	24501	AI232006	m		EST, Moderately similar to EF1D_HUMAN ELONGATION FACTOR 1-DELTA [H.sapiens], ESTs, Moderately similar to EF1D_HUMAN ELONGATION FACTOR 1-DELTA [H.sapiens], hypothetical protein FLJ20897
3271	21396	NM_013198	k, jj		EST, Moderately similar to FIG1 MOUSE FIG-1 PROTEIN PRECURSOR [M.musculus], RIKEN cDNA 1110061B18 gene, RIKEN cDNA 4930438A08 gene, expressed sequence AI482520, expressed sequence AW990848, interleukin-four induced gene 1, monoamine oxidase B
3164	20945	NM_012875	gg, hh		EST, Moderately similar to G02654 ribosomal protein L39 [H.sapiens], EST, Moderately similar to RL39_HUMAN 60S ribosomal protein L39 [R.norvegicus], ESTs, Highly similar to G02654 ribosomal protein L39 [H.sapiens], ESTs, Moderately similar to G02654 ribosomal protein L39 [H.sapiens], RIKEN cDNA 2810465O16 gene, RIKEN cDNA 3930402I10 gene, RIKEN cDNA 4930517K11 gene, ribosomal protein L39, ribosomal protein L39-like

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4348	17626	S78556	qq		EST, Moderately similar to GR75_HUMAN MITOCHONDRIAL STRESS-70 PROTEIN PRECURSOR [H.sapiens], ESTs, Highly similar to I56581 dnaK-type molecular chaperone grp75 precursor - rat [R.norvegicus], ESTs, Moderately similar to GR75_HUMAN MITOCHONDRIAL STRESS 70 PROTEIN PRECURSOR [H.sapiens], heat shock 70kD protein 9B (mortalin-2), heat shock protein 74 kDa A
3231	24607	NM_013075	n		EST, Moderately similar to HXA1_RAT Homeobox protein Hox-A1 [R.norvegicus], homeo box A1, homeo box B1, homeo box D1
3278	1495	NM_013221	f, General, qq, vv		EST, Moderately similar to I58311 HMG-box containing protein 1 - rat [R.norvegicus], ESTs, Highly similar to I58311 HMG-box containing protein 1 - rat [R.norvegicus], ESTs, Moderately similar to I58311 HMG-box containing protein 1 - rat [R.norvegicus], HMG-box containing protein 1, Mus musculus, Similar to protein kinase, lysine deficient 4, clone IMAGE:4973225, mRNA, partial cds, RIKEN cDNA 1200010B10 gene, RIKEN cDNA 1700058O05 gene
3278	18230	NM_013221	r		EST, Moderately similar to I58311 HMG-box containing protein 1 - rat [R.norvegicus], ESTs, Highly similar to I58311 HMG-box containing protein 1 - rat [R.norvegicus], HMG-box containing protein 1, RIKEN cDNA 1700058O05 gene
2785	3489	AI237620	n		EST, Moderately similar to I75615 mammary tumor integration site 6 oncogene protein - mouse [M.musculus], EST, Weakly similar to IF36_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 6 [H.sapiens], ESTs, Moderately similar to IF36_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 6 [H.sapiens], eukaryotic translation initiation factor 3, subunit 6 (48kD), mammary tumor integration site 6

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4087	1029	NM_053953	mm		EST, Moderately similar to IL1S MOUSE INTERLEUKIN-1 RECEPTOR, TYPE II PRECURSOR [M.musculus], interleukin 1 receptor, type II, lymphocyte-activation gene 3
3426	24732	NM_019130	g		EST, Moderately similar to INS2_RAT Insulin 2 precursor [R.norvegicus], ESTs, Moderately similar to INS2 MOUSE INSULIN 2 PRECURSOR [M.musculus], expressed sequence AA986540, insulin, insulin II
710	4678	AA893384	v		EST, Moderately similar to IRF3_HUMAN INTERFERON REGULATORY FACTOR 3 [H.sapiens], ESTs, Moderately similar to IRF3 MOUSE INTERFERON REGULATORY FACTOR 3 [M.musculus], ESTs, Weakly similar to IRF3 MOUSE INTERFERON REGULATORY FACTOR 3 [M.musculus], interferon regulatory factor 3
1515	4679	AI029847	General		EST, Moderately similar to IRF3_HUMAN INTERFERON REGULATORY FACTOR 3 [H.sapiens], ESTs, Moderately similar to IRF3 MOUSE INTERFERON REGULATORY FACTOR 3 [M.musculus], ESTs, Weakly similar to IRF3 MOUSE INTERFERON REGULATORY FACTOR 3 [M.musculus], interferon regulatory factor 3
3565	22412	NM_022392	f, p, s, General, ee, ff		EST, Moderately similar to ISI1_RAT Insulin-induced protein 1 (Insulin-induced growth response protein CL-6) (Immediate-early protein CL-6) [R.norvegicus], RIKEN cDNA 2900053111 gene, insulin induced gene 1, insulin induced protein 2
3565	22413	NM_022392	a, f, p, General, ee, ff, qq		EST, Moderately similar to ISI1_RAT Insulin-induced protein 1 (Insulin-induced growth response protein CL-6) (Immediate-early protein CL-6) [R.norvegicus], RIKEN cDNA 2900053111 gene, insulin induced gene 1, insulin induced protein 2
3565	22414	NM_022392	ff		EST, Moderately similar to ISI1_RAT Insulin-induced protein 1 (Insulin-induced growth response protein CL-6) (Immediate-early protein CL-6) [R.norvegicus], RIKEN cDNA 2900053111 gene, insulin induced gene 1, insulin induced protein 2



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3565	22415	NM_022392	p, General, ff		EST, Moderately similar to ISI1_RAT Insulin-induced protein 1 (Insulin-induced growth response protein CL-6) (Immediate-early protein CL-6) [R.norvegicus], RIKEN cDNA 2900053111 gene, insulin induced gene 1, insulin induced protein 2
1101	12479	AA957557	a, vv		EST, Moderately similar to ITH3_RAT Inter-alpha-trypsin inhibitor heavy chain H3 precursor (ITI heavy chain H3) [R.norvegicus], hypothetical protein MGC10848, inter-alpha trypsin inhibitor, heavy chain 1, inter-alpha trypsin inhibitor, heavy chain 3, pre-alpha (globulin) inhibitor, H3 polypeptide, pre-alpha-inhibitor, heavy chain 3
3419	537	NM_017351	h, ss, uu		EST, Moderately similar to ITH3_RAT Inter-alpha-trypsin inhibitor heavy chain H3 precursor (ITI heavy chain H3) [R.norvegicus], inter-alpha (globulin) inhibitor, H1 polypeptide, inter-alpha (globulin) inhibitor, H2 polypeptide, inter-alpha trypsin inhibitor, heavy chain 1, inter-alpha trypsin inhibitor, heavy chain 3, pre-alpha (globulin) inhibitor, H3 polypeptide
1918	4402	AI103874	kk		EST, Moderately similar to JQ1522 peptidylprolyl isomerase [H.sapiens], ESTs, Moderately similar to 1613455A FK506 binding protein FKBP [H.sapiens], FK506 binding protein 3 (25kD), FK506 binding protein 7, FK506 binding protein 9 (63 kD), FK506 binding protein precursor, hypothetical protein FLJ20731

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4257	18867	NM_138900	b, h, General, dd, rr		EST, Moderately similar to MAS2_HUMAN MANNAN-BINDING LECTIN SERINE PROTEASE 2 PRECURSOR [H.sapiens], ESTs, Moderately similar to CRAR_HUMAN COMPLEMENT-ACTIVATING COMPONENT OF RA-REACTIVE FACTOR PRECURSOR [H.sapiens], Mus musculus, Similar to complement component 1, s subcomponent, clone MGC:19094 IMAGE:4196654, mRNA, complete cds, Mus musculus, Similar to complement component 1, s subcomponent, clone MGC:28492 IMAGE:4166254, mRNA, complete cds, complement component 1, r subcomponent, complement component 1, s subcomponent, mannan-binding lectin serine protease 2
3772	164	NM_031151	v		EST, Moderately similar to MDHM_RAT MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR [R.norvegicus], EST, Weakly similar to DEMSMM malate dehydrogenase [M.musculus], malate dehydrogenase 2, NAD (mitochondrial), malate dehydrogenase, mitochondrial
537	16037	AA891441	j		EST, Moderately similar to MPL3 RAT MICROTUBULE-ASSOCIATED PROTEINS 1A/1B LIGHT-CHAIN 3 [R.norvegicus], ESTs, Highly similar to MPL3_HUMAN Microtubule-associated proteins 1A/1B light chain 3 (MAP1A/MAP1B LC3) [H.sapiens], ESTs, Moderately similar to MPL3 RAT MICROTUBULE-ASSOCIATED PROTEINS 1A/1B LIGHT CHAIN 3 [R.norvegicus], GABA(A) receptor-associated protein like 1, GABA(A) receptor-associated protein-like 2, GABA(A) receptors associated protein like 3, microtubule-associated protein 1 light chain 3 alpha, microtubule-associated proteins 1A/1B light chain 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3986	23558	NM_053507	General		EST, Moderately similar to NDK3_MOUSE NUCLEOSIDE DIPHOSPHATE KINASE 3 (NDK 3) (NDP KINASE 3) (NM23-M3) (DR-NM23) [M.musculus], expressed in non-metastatic cells 3, expressed in non-metastatic cells 4, protein (NM23-M4)(nucleoside diphosphate kinase), expressed sequence A1413736, non-metastatic cells 3, protein expressed in, non-metastatic cells 4 protein expressed in
2218	18498	AI172452	m, ii, ll, uu		EST, Moderately similar to OSHU7L cytochrome-c oxidase [H.sapiens], ESTs, Weakly similar to COXJ_RAT Cytochrome c oxidase polypeptide VIIa-liver/heart, mitochondrial precursor (Cytochrome c oxidase subunit VIIa-L) [R.norvegicus]
2607	18497	AI232307	c		EST, Moderately similar to OSHU7L cytochrome-c oxidase [H.sapiens], ESTs, Weakly similar to COXJ_RAT Cytochrome c oxidase polypeptide VIIa-liver/heart, mitochondrial precursor (Cytochrome c oxidase subunit VIIa-L) [R.norvegicus]
3389	17715	NM_017274	ss, xx		EST, Moderately similar to PLSB_MOUSE GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR [M.musculus], EST, Weakly similar to PLSB_RAT GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR (GPAT) [R.norvegicus], ESTs, Weakly similar to GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE PRECURSOR [M.musculus], ESTs, Weakly similar to PLSB_MOUSE GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR [M.musculus], KIAA1560 protein, glycerol-3-phosphate acyltransferase, mitochondrial

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3389	20282	NM_017274	y		EST, Moderately similar to PLSB MOUSE GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR [M.musculus], EST, Weakly similar to PLSB_RAT GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR (GPAT) [R.norvegicus], ESTs, Weakly similar to GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE PRECURSOR [M.musculus], ESTs, Weakly similar to PLSB MOUSE GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR [M.musculus], KIAA1560 protein, glycerol-3-phosphate acyltransferase, mitochondrial
189	9840	AA817964	g		EST, Moderately similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A-esterase 1) (Aromatic esterase 1) [R.norvegicus], EST, Weakly similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A-esterase 1) (Aromatic esterase 1) [R.norvegicus], Homo sapiens cDNA FLJ30126 fis, clone BRACE1000114, paraoxonase 1, paraoxonase 2
4400	9841	U94856	w		EST, Moderately similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A-esterase 1) (Aromatic esterase 1) [R.norvegicus], EST, Weakly similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A-esterase 1) (Aromatic esterase 1) [R.norvegicus], Homo sapiens cDNA FLJ30126 fis, clone BRACE1000114, paraoxonase 1, paraoxonase 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4400	9842	U94856	pp		EST, Moderately similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A- esterase 1) (Aromatic esterase 1) [R.norvegicus], EST, Weakly similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A- esterase 1) (Aromatic esterase 1) [R.norvegicus], Homo sapiens cDNA FLJ30126 fis, clone BRACE1000114, <del>paraoxonase 1, paraoxonase 2</del>
2085	1335	AI169105	ss		EST, Moderately similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A- esterase 1) (Aromatic esterase 1) [R.norvegicus], ESTs, Moderately similar to PON2_HUMAN SERUM PARAOXONASE/ARYLESTERASE 2 [H.sapiens], Homo sapiens cDNA FLJ30126 fis, clone BRACE1000114, Mus musculus, Similar to paraoxonase 2, clone MGC:11614 IMAGE:3154583, mRNA, complete cds, paraoxonase 1, paraoxonase 2
201	6016	AA818163	x		EST, Moderately similar to PON1_RAT Serum paraoxonase/arylesterase 1 (PON 1) (Serum aryldiacylphosphatase 1) (A- esterase 1) (Aromatic esterase 1) [R.norvegicus], Homo sapiens cDNA FLJ30126 fis, clone BRACE1000114, expressed sequence AI786302, <del>paraoxonase 1, paraoxonase 3</del>
533	9136	AA891226	rr, tt		EST, Moderately similar to PSB5_RAT Proteasome subunit beta type 5 precursor (Proteasome epsilon chain) (Macropain epsilon chain) (Multicatalytic endopeptidase complex epsilon chain) (Proteasome subunit X) (Proteasome chain 6) [R.norvegicus], RIKEN cDNA 5830406J20 gene, proteasome (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4260	18082	NM_138907	nn		EST, Moderately similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], ESTs, Weakly similar to MTE1_RAT Acyl coenzyme A thioester hydrolase, mitochondrial precursor (Very-long-chain acyl-CoA thioesterase) (MTE-I) [R.norvegicus], ESTs, Weakly similar to PTE2_HUMAN PEROXISOMAL ACYL- COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL- COA THIOESTERASE 2) (ZAP128) [H.sapiens], Homo sapiens cDNA FLJ31235 fis, clone KIDNE2004681, moderately similar to Mus musculus peroxisomal long chain acyl-CoA thioesterase 1b (Pte1b) gene, Mus musculus, Similar to bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase), clone MGC:19156 IMAGE:4220620, mRNA, complete cds, mitochondrial acyl-CoA thioesterase 1, peroxisomal long-chain acyl- coA thioesterase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4260	18083	NM_138907	m, o, jj, nn, xx		EST, Moderately similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], ESTs, Weakly similar to MTE1_RAT Acyl coenzyme A thioester hydrolase, mitochondrial precursor (Very-long-chain acyl-CoA thioesterase) (MTE-I) [R.norvegicus], ESTs, Weakly similar to PTE2_HUMAN PEROXISOMAL ACYL- COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL- COA THIOESTERASE 2) (ZAP128) [H.sapiens], Homo sapiens cDNA FLJ31235 fis, clone KIDNE2004681, moderately similar to Mus musculus peroxisomal long chain acyl-CoA thioesterase 1b (Pte1b) gene, Mus musculus, Similar to bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase), clone MGC:19156 IMAGE:4220620, mRNA, complete cds, mitochondrial acyl-CoA thioesterase 1, peroxisomal long-chain acyl- coA thioesterase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2624	5602	AI232611	o, ff, xx		EST, Moderately similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], ESTs, Weakly similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], Homo sapiens cDNA FLJ31235 fis, clone KIDNE2004681, moderately similar to Mus musculus peroxisomal long chain acyl-CoA thioesterase 1b (Pte1b) gene, Mus musculus, Similar to cytosolic acyl-CoA thioesterase 1, clone MGC:27572 IMAGE:4485973, mRNA, complete cds, RIKEN cDNA 4632408A20 gene, expressed sequence AW108394, mitochondrial acyl- CoA thioesterase 1, peroxisomal acyl-CoA thioesterase 2A, peroxisomal acyl-CoA thioesterase 2B, peroxisomal long-chain acyl-coA thioesterase
3132	1478	NM_012744	kk		EST, Moderately similar to PYC_RAT Pyruvate carboxylase, mitochondrial precursor (Pyruvic carboxylase) (PCB) [R.norvegicus], Mus musculus, Similar to Propionyl Coenzyme A carboxylase, alpha polypeptide, clone MGC:11973 IMAGE:3601148, mRNA, complete cds, pyruvate carboxylase, pyruvate decarboxylase



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1591	18205	AI044836	h		EST, Moderately similar to RBM8_HUMAN PUTATIVE RNA-BINDING PROTEIN 8 [H.sapiens], ESTs, Moderately similar to NUCLEOLIN [M.musculus], ESTs, Moderately similar to RBM8_HUMAN PUTATIVE RNA-BINDING PROTEIN 8 [H.sapiens], ESTs, Weakly similar to NUCL_HUMAN NUCLEOLIN [H.sapiens], Homo sapiens, clone MGC:22221 IMAGE:4687764, mRNA, complete cds, Mus musculus, Similar to fusion, derived from t(12;16) malignant liposarcoma, clone MGC:18917 IMAGE:3153860, mRNA, complete cds, Nucleolin, RNA binding motif protein 8A, TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68 kDa, eukaryotic translation initiation factor 3, subunit 4 (delta, 44 kDa), nucleolin, pigpen
2155	18535	AI170979	dd, oo		EST, Moderately similar to REQN_MOUSE ZINC-FINGER PROTEIN NEURO-D4 [M.musculus], Neuro-d4 (rat) homolog, PHD zinc finger protein XAP135, isoform b, RIKEN cDNA 1600012H06 gene, RIKEN cDNA 1810055P05 gene, expressed sequence C78788, neuro-d4, neuronal d4 domain family member
2641	4442	AI233163	gg, hh		EST, Moderately similar to RL11_HUMAN 60S RIBOSOMAL PROTEIN L11 [H.sapiens], EST, Moderately similar to RL11_HUMAN 60S ribosomal protein L11 [R.norvegicus], EST, Weakly similar to RL11_HUMAN 60S RIBOSOMAL PROTEIN L11 [H.sapiens], ESTs, Highly similar to RIKEN cDNA 2010203J19 [Mus musculus] [M.musculus], ESTs, Moderately similar to RL11_HUMAN 60S RIBOSOMAL PROTEIN L11 [H.sapiens], RIKEN cDNA 2010203J19 gene, ribosomal protein L11

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4446	4441	X62146	ee		EST, Moderately similar to RL11_HUMAN 60S RIBOSOMAL PROTEIN L11 [H.sapiens], EST, Moderately similar to RL11_HUMAN 60S ribosomal protein L11 [R.norvegicus], EST, Weakly similar to RL11_HUMAN 60S RIBOSOMAL PROTEIN L11 [H.sapiens], ESTs, Highly similar to RIKEN cDNA 2010203J19 [Mus musculus] [M.musculus], ESTs, Moderately similar to RL11_HUMAN 60S RIBOSOMAL PROTEIN L11 [H.sapiens], RIKEN cDNA 2010203J19 gene, ribosomal protein L11
3215	17174	NM_013030	gg, hh		EST, Moderately similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN L17 [H.sapiens], EST, Weakly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17 [R.norvegicus], EST, Weakly similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN L17 [H.sapiens], ESTs, Highly similar to R5HU22 ribosomal protein L17, cytosolic [H.sapiens], ESTs, Highly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17 [R.norvegicus], ESTs, Weakly similar to R5HU22 ribosomal protein L17, cytosolic [H.sapiens], Mus musculus adult female placenta cDNA, RIKEN full-length enriched library, clone:1600029O15:hexokinase 1, full insert sequence, ribosomal protein L17
4438	17175	X58389	rr		EST, Moderately similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN L17 [H.sapiens], EST, Weakly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17 [R.norvegicus], EST, Weakly similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN L17 [H.sapiens], ESTs, Highly similar to R5HU22 ribosomal protein L17, cytosolic [H.sapiens], ESTs, Highly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17 [R.norvegicus], ESTs, Weakly similar to R5HU22 ribosomal protein L17, cytosolic [H.sapiens], Mus musculus adult female placenta cDNA, RIKEN full-length enriched library, clone:1600029O15:hexokinase 1, full insert sequence, ribosomal protein L17

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2094	18641	A1169225	ee		EST, Moderately similar to RL35_HUMAN 60S RIBOSOMAL PROTEIN L3 [H.sapiens], EST, Moderately similar to RL35_RAT 60S RIBOSOMAL PROTEIN L35 [R.norvegicus], Homo sapiens, clone IMAGE:4183312, mRNA, partial cds, ribosomal protein L35
3015	17211	M34331	ee, ll		EST, Moderately similar to RL35_HUMAN 60S RIBOSOMAL PROTEIN L3 [H.sapiens], EST, Moderately similar to RL35_RAT 60S RIBOSOMAL PROTEIN L35 [R.norvegicus], Homo sapiens, clone IMAGE:4183312, mRNA, partial cds, ribosomal protein L35
3015	26030	M34331	bb, ll		EST, Moderately similar to RL35_HUMAN 60S RIBOSOMAL PROTEIN L3 [H.sapiens], EST, Moderately similar to RL35_RAT 60S RIBOSOMAL PROTEIN L35 [R.norvegicus], Homo sapiens, clone IMAGE:4183312, mRNA, partial cds, ribosomal protein L35
3868	16918	NM_031709	x, z, ee, gg, hh, ll		EST, Moderately similar to RS12_HUMAN 40S RIBOSOMAL PROTEIN S1 [H.sapiens], ESTs, Moderately similar to R3HU12 ribosomal protein S12, cytosolic [H.sapiens], ESTs, Moderately similar to RS12 MOUSE 40S RIBOSOMAL PROTEIN S12 [M.musculus], ribosomal protein S12
3908	10267	NM_031838	h		EST, Moderately similar to RS2 MOUSE 40S RIBOSOMAL PROTEIN S2 [M.musculus], EST, Weakly similar to ribosomal protein S2; 40S ribosomal protein S2 [Homo sapiens] [H.sapiens], EST, Weakly similar to RS2_HUMAN 40S RIBOSOMAL PROTEIN S2 [H.sapiens], EST, Weakly similar to RS2_RAT 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], ESTs, Highly similar to ribosomal protein S2; 40S ribosomal protein S2 [Homo sapiens] [H.sapiens], ESTs, Highly similar to ribosomal protein S2; repeat family 3 gene [Mus musculus] [M.musculus], Homo sapiens, clone IMAGE:4816496, mRNA, partial cds, ribosomal protein S2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3908	10269	NM_031838	w		EST, Moderately similar to RS2 MOUSE 40S RIBOSOMAL PROTEIN S2 [M.musculus], EST, Weakly similar to ribosomal protein S2; 40S ribosomal protein S2 [Homo sapiens] [H.sapiens], EST, Weakly similar to RS2_HUMAN 40S RIBOSOMAL PROTEIN S2 [H.sapiens], EST, Weakly similar to RS2_RAT 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], ESTs, Highly similar to ribosomal protein S2; 40S ribosomal protein S2 [Homo sapiens] [H.sapiens], ESTs, Highly similar to ribosomal protein S2; repeat family 3 gene [Mus musculus] [M.musculus], Homo sapiens, clone IMAGE:4816496, mRNA, partial cds, ribosomal protein S2
3756	19161	NM_031111	j, ee		EST, Moderately similar to RS21_RAT 40S RIBOSOMAL PROTEIN S21 [R.norvegicus], ribosomal protein S21
1333	10820	AI009411	ee		EST, Moderately similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], EST, Weakly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Highly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Moderately similar to RS3_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], ESTs, Weakly similar to RS3_MOUSE 40S RIBOSOMAL PROTEIN S3 [M.musculus], hypothetical protein FLJ11252, hypothetical protein FLJ23059, myo-inositol 1-phosphate synthase A1, ribosomal protein S3
621	13647	AA892367	z, General, li, rr		EST, Moderately similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], EST, Weakly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Highly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Moderately similar to RL3_RAT 60S RIBOSOMAL PROTEIN L3 (L4) [R.norvegicus], ESTs, Weakly similar to RL3_MOUSE 60S RIBOSOMAL PROTEIN L3 [M.musculus], RIKEN cDNA 1110057H16 gene, ribosomal protein L3, ribosomal protein L3-like

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4447	13646	X62166	l, m, s, z, General, bb, cc, ii, qq, rr		EST, Moderately similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], EST, Weakly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Highly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Moderately similar to RL3_RAT 60S RIBOSOMAL PROTEIN L3 (L4) [R.norvegicus], ESTs, Weakly similar to RL3 MOUSE 60S RIBOSOMAL PROTEIN L3 [M.musculus], RIKEN cDNA 1110057H16 gene, ribosomal protein L3, ribosomal protein L3-like
667	6951	AA892820	bb		EST, Moderately similar to S70642 ubiquitin ligase Nedd4 - rat (fragment) [R.norvegicus], ESTs, Highly similar to S70642 ubiquitin ligase Nedd4 - rat (fragment) [R.norvegicus], ESTs, Moderately similar to S70642 ubiquitin ligase Nedd4 - rat (fragment) [R.norvegicus], ESTs, Weakly similar to NED4 MOUSE NEDD-4 PROTEIN [M.musculus], neural precursor cell expressed, developmentally down-regulated 4, neural precursor cell expressed, developmentally down-regulated gene 4a
2278	15191	AI176456	t, w		EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens], ESTs, Highly similar to SMHU1B metallothionein 1B [H.sapiens], H.sapiens mRNA for metallothionein isoform 1R, Homo sapiens metallothionein 1H-like protein mRNA, complete cds, Homo sapiens unknown mRNA, Homo sapiens, Similar to RNA helicase-related protein, clone MGC:9246 IMAGE:3892441, mRNA, complete cds, Mus musculus, metallothionein 2A, clone MGC:30400 IMAGE:4501155, mRNA, complete cds, metallothionein 1H, metallothionein 1X, metallothionein 2

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1281	3896	AF077000	m		EST, Moderately similar to T14756 hypothetical protein DKFZp564F0923.1 [H.sapiens], ESTs, Weakly similar to S57447 HPBRII-7 protein [H.sapiens], ESTs, Weakly similar to T14355 protein-tyrosine-phosphatase (EC 3.1.3.48) TD14 - rat [R.norvegicus], ESTs, Weakly similar to T14355 protein-tyrosine-phosphatase [R.norvegicus], Homo sapiens cDNA FLJ13094 fis, clone NT2RP3002163, RIKEN cDNA 6030468B19 gene, expressed sequence AI462446, guanine nucleotide binding protein 13, gamma, protein tyrosine phosphatase, non-receptor type 2, protein tyrosine phosphatase, non-receptor type 23, tankyrase 1-binding protein of 182 kDa
4281	22970	NM_139254	c, d, u		EST, Moderately similar to TBB3_HUMAN TUBULIN BETA-3 CHAIN [H.sapiens], ESTs, Highly similar to T08726 tubulin beta chain [H.sapiens], ESTs, Highly similar to TBB1_RAT TUBULIN BETA CHAIN (T BETA-15) [R.norvegicus], ESTs, Highly similar to TBB2_HUMAN TUBULIN BETA-2 CHAIN [H.sapiens], RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930447K03 gene, RIKEN cDNA 4930542G03 gene, Rat mRNA for beta-tubulin T beta15, expressed sequence AI451582, expressed sequence C79445, tubulin beta.5, tubulin beta.4
199	6526	AA818118	gg, hh		EST, Moderately similar to TIAR_HUMAN NUCLEOLYSIN TIAR [H.sapiens], Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310074E15:RNA binding motif protein 3, full insert sequence, RIKEN cDNA 2310050N03 gene, RIKEN cDNA 3100004P22 gene, RNA binding motif protein 3, TIA1 cytotoxic granule-associated RNA binding protein-like 1, cold inducible RNA binding protein, cold inducible RNA-binding protein, cytotoxic granule-associated RNA binding protein 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
483	21589	AA875084	y, nn		EST, Moderately similar to TLE4_HUMAN TRANSDUCIN-LIKE ENHANCER PROTEIN 4 [H.sapiens], ESTs, Highly similar to TLE4 MOUSE TRANSDUCIN-LIKE ENHANCER PROTEIN 4 [M.musculus], KIAA1547 protein, RIKEN cDNA 5730411M05 gene, expressed sequence AA792082, hypothetical protein FLJ14009, transducin- like enhancer of split 1, homolog of Drosophila E(spl), transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila), transducin-like enhancer of split 4, E(spl) homolog (Drosophila)
2006	11735	AI136540	j		EST, Moderately similar to TRT3_RAT Troponin T, fast skeletal muscle isoforms beta/alpha (Beta/alpha TnTF) [R.norvegicus], troponin T1, skeletal, slow, troponin T3, skeletal, fast
4414	19584	X13905	General, mm		EST, Moderately similar to TVRTYP GTP- binding protein Rab1 - rat [R.norvegicus], ESTs, Moderately similar to RAS-RELATED PROTEIN RAB-1A [M.musculus], RAB1B, member RAS oncogene family, RAB33B, member RAS oncogene family
124	9089	AA800389	d		EST, Moderately similar to Zfp71 gene [M.musculus], ESTs, Moderately similar to S00754 zinc finger protein kox25 [H.sapiens], ESTs, Weakly similar to A48157 renal transcription factor Kid-1 - rat [R.norvegicus], ESTs, Weakly similar to Z189_HUMAN ZINC FINGER PROTEIN 189 [H.sapiens], ESTs, Weakly similar to Z225_HUMAN ZINC FINGER PROTEIN 225 [H.sapiens], ESTs, Weakly similar to ZINC FINGER PROTEIN ZFP-1 [M.musculus], Homo sapiens cDNA FLJ11734 fis, clone HEMBA1005443, RIKEN cDNA 9030409O18 gene, zinc finger protein 189

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4091	16546	NM_053965	o, ii		EST, Weakly similar to carnitine/acylcarnitine translocase; mitochondrial carnitine-acylcarnitine translocase gene [Mus musculus] [M.musculus], ESTs, Weakly similar to solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to MCAT_HUMAN MITOCHONDRIAL CARNITINE/ACYLCARNITINE CARRIER PROTEIN [H.sapiens], Homo sapiens, similar to solute carrier family 25 (carnitine/acylcarnitine translocase), member 20, clone MGC:35539 IMAGE:5200129, mRNA, complete cds, Mus musculus, Similar to CG4995 gene product, clone MGC:7958 IMAGE:3584570, mRNA, complete cds, expressed sequence AW491445, expressed sequence W51672, ornithine transporter 2, solute carrier family 25 (carnitine/acylcarnitine translocase), member 20, solute carrier family 25 (mitochondrial carnitine/acylcarnitine translocase), member 20, solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 3, solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4091	16547	NM_053965	o		EST, Weakly similar to carnitine/acylcarnitine translocase; mitochondrial carnitine-acylcarnitine translocase gene [Mus musculus] [M.musculus], ESTs, Weakly similar to solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to MCAT_HUMAN MITOCHONDRIAL CARNITINE/ACYLCARNITINE CARRIER PROTEIN [H.sapiens], Homo sapiens, similar to solute carrier family 25 (carnitine/acylcarnitine translocase), member 20, clone MGC:35539 IMAGE:5200129, mRNA, complete cds, Mus musculus, Similar to CG4995 gene product, clone MGC:7958 IMAGE:3584570, mRNA, complete cds, expressed sequence AW491445, expressed sequence W51672, ornithine transporter 2, solute carrier family 25 (carnitine/acylcarnitine translocase), member 20, solute carrier family 25 (mitochondrial carnitine/acylcarnitine translocase), member 20, solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 3, solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15
4010	20902	NM_053593	cc		EST, Weakly similar to cyclin-dependent kinase 4 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to cyclin-dependent kinase 4 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to CDK4 MOUSE CELL DIVISION PROTEIN KINASE 4 [M.musculus], cyclin-dependent kinase 4, cyclin-dependent kinase 6
2469	21505	AI228005	bb		EST, Weakly similar to deoxycytidine kinase [Rattus norvegicus] [R.norvegicus], deoxycytidine kinase, deoxyguanosine kinase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3598	20820	NM_022593	u		EST, Weakly similar to elongation factor SIII p15 subunit [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to elongation factor SIII p15 subunit [Rattus norvegicus] [R.norvegicus], transcription elongation factor B (SIII), polypeptide 1 (15kD. elongin C)
4123	15839	NM_057143	bb, kk		EST, Weakly similar to fertility protein SP22 [Rattus norvegicus] [R.norvegicus], RNA binding protein regulatory subunit, RNA-binding protein regulatory subunit
631	9254	AA892470	j, q, nn, oo		EST, Weakly similar to histone H2A.F/Z variant [Homo sapiens] [H.sapiens], ESTs, Weakly similar to H2AZ_HUMAN HISTONE H2A [H.sapiens], H2A histone family, member Z, Homo sapiens cDNA FLJ32241 fis, clone PLACE6005231, RIKEN cDNA C530002L11 gene, histone H2A.F/Z variant
34	16942	AA799520	ee		EST, Weakly similar to integral membrane protein 2B [Homo sapiens] [H.sapiens], integral membrane protein 2B
3504	904	NM_019620	d, n, gg, hh, kk, tt		EST, Weakly similar to Kruppel associated box (KRAB) zinc finger 1 [Rattus norvegicus] [R.norvegicus], EST, Weakly similar to ZINC FINGER PROTEIN 91 [H.sapiens], ESTs, Moderately similar to DNA-binding protein; zinc finger protein 253 [Homo sapiens] [H.sapiens], ESTs, Moderately similar to ZINC FINGER PROTEIN 91 [H.sapiens], Mus musculus, Similar to RIKEN cDNA 2610036F08 gene, clone MGC:28645 IMAGE:4224834, mRNA, complete cds, expressed sequence AI790734, expressed sequence AU021768, zinc finger protein 386 (Kruppel-like), zinc finger protein 91 (HPF7, HTF10)
3639	21491	NM_022951	tt		EST, Weakly similar to proline rich protein 2 [Mus musculus] [M.musculus], EST, Weakly similar to ZAP3_MOUSE Nuclear protein ZAP3 [M.musculus], ESTs, Weakly similar to proline rich protein 2 [Mus musculus] [M.musculus], expressed sequence AA408880, pantothenate kinase, proline rich protein 2, protein phosphatase 1, regulatory subunit 10

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
91	20811	AA799899	ee		EST, Weakly similar to ribosomal protein L18a; 60S ribosomal protein L18a [Homo sapiens] [H.sapiens], ESTs, Highly similar to ribosomal protein L18a; 60S ribosomal protein L18a [Homo sapiens] [H.sapiens]
4415	20810	X14181	l		EST, Weakly similar to ribosomal protein L18a; 60S ribosomal protein L18a [Homo sapiens] [H.sapiens], ESTs, Highly similar to ribosomal protein L18a; 60S ribosomal protein L18a [Homo sapiens] [H.sapiens]
562	18269	AA891769	z		EST, Weakly similar to SC65 synaptonemal complex protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to SC65 synaptonemal complex protein [Rattus norvegicus] [R.norvegicus], SC65 synaptonemal complex protein, cartilage associated protein, growth suppressor 1, nucleolar autoantigen (55kD) similar to rat synaptonemal complex protein
1709	8590	AI060207	nn		EST, Weakly similar to splicing factor 3b, subunit 1, 155 kDa [Mus musculus] [M.musculus], ESTs, Weakly similar to S3B1_HUMAN Splicing factor 3B subunit 1 (Spliceosome associated protein 155) (SAP 155) (SF3b155) (Pre-mRNA splicing factor SF3b 155 kDa subunit) [H.sapiens], splicing factor 3b, subunit 1, 155 kDa, splicing factor 3b subunit 1 155kD
4127	18122	NM_057208	ee		EST, Weakly similar to tropomyosin 3, gamma [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to TPMN_HUMAN TROPOMYOSIN, CYTOSKELETAL TYPE [H.sapiens], ESTs, Moderately similar to TROPOMYOSIN 5, CYTOSKELETAL TYPE [M.musculus]
165	21415	AA800948	l, mm		EST, Weakly similar to 0812252A tubulin alpha [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to 0812252A tubulin alpha [Rattus norvegicus] [R.norvegicus], tubulin, alpha 1 (testis specific), tubulin, alpha 4, tubulin, alpha 8
873	21010	AA925306	o		EST, Weakly similar to 1701410A choline acetyltransferase [Rattus norvegicus] [R.norvegicus], carnitine acetyltransferase

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439	19332	AA860014	e		EST, Weakly similar to 2206405A hemoglobin:SUBUNIT=zeta [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to 2206405A hemoglobin:SUBUNIT=zeta [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to HZHU hemoglobin zeta chain [H.sapiens], cytoglobin, hemoglobin X, alpha-like embryonic chain in Hba complex hemoglobin zeta
4433	24577	X55153	h, v, General		EST, Weakly similar to 60S ACIDIC RIBOSOMAL PROTEIN P2 [R.norvegicus], EST, Weakly similar to R6HUP2 acidic ribosomal protein P2, cytosolic [H.sapiens], ESTs, Highly similar to MTJ1 MOUSE DNAJ PROTEIN HOMOLOG MTJ1 [M.musculus], ESTs, Weakly similar to RLA1 MOUSE 60S ACIDIC RIBOSOMAL PROTEIN P1 [M.musculus], Homo sapiens cDNA FLJ31504 fis, clone NT2NE2005804, weakly similar to 60S ACIDIC RIBOSOMAL PROTEIN P2, expressed sequence A1255964, ribosomal protein, large, P1
4092	15135	NM_053971	w		EST, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ribosomal protein L6
4092	15136	NM_053971	h		EST, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ribosomal protein L6
158	22025	AA800849	ss		EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784 fis, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKFZp566G0746, RIKEN cDNA 3830414F09 gene
461	16029	AA874803	ss		EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784 fis, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKFZp566G0746, RIKEN cDNA 3830414F09 gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
995	22029	AA945284	dd		EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784 fis, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKFZp566G0746, RIKEN cDNA 3830414F09 gene
1388	22030	AI011177	n		EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784 fis, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKFZp566G0746, RIKEN cDNA 3830414F09 gene
2028	11270	AI137480	nn		EST, Weakly similar to A29149 proline-rich protein - mouse [M.musculus], EST, Weakly similar to B Chain B, Solution Structure Of Cdc42 In Complex With The Gtpase Binding Domain Of Wasp {SUB 230-288 [H.sapiens], EST, Weakly similar to PRP1_HUMAN SALIVARY PROLINE-RICH PROTEIN PRECURSOR [H.sapiens], EST, Weakly similar to S10889 proline-rich protein [H.sapiens], EST, Weakly similar to S22373 proline-rich protein - mouse [M.musculus], Homo sapiens cDNA FLJ30428 fis, clone BRACE2008941, Kruppel-like factor 2 (lung)
3711	1538	NM_031012	k, mm		EST, Weakly similar to A32852 membrane alanyl aminopeptidase (EC 3.4.11.2) - rat [R.norvegicus], ESTs, Weakly similar to AMPN MOUSE AMINOPEPTIDASE N [M.musculus], RIKEN cDNA 2010111I01 gene, RIKEN cDNA 4833403I15 gene, alanyl (membrane) aminopeptidase, alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M, microsomal aminopeptidase CD13 p150)
3711	1540	NM_031012	n, dd, ee		EST, Weakly similar to A32852 membrane alanyl aminopeptidase (EC 3.4.11.2) - rat [R.norvegicus], ESTs, Weakly similar to AMPN MOUSE AMINOPEPTIDASE N [M.musculus], RIKEN cDNA 2010111I01 gene, RIKEN cDNA 4833403I15 gene, alanyl (membrane) aminopeptidase, alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M, microsomal aminopeptidase CD13 p150)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1400	3995	AI011678	i, jj		EST, Weakly similar to A33880 syndecan 2 [H.sapiens], Mus musculus, clone IMAGE:4983756, mRNA, partial cds, syndecan 2, syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroblast)
3234	1529	NM_013082	b, e, h, i, General		EST, Weakly similar to A33880 syndecan 2 [H.sapiens], Mus musculus, clone IMAGE:4983756, mRNA, partial cds, syndecan 2, syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroblast)
1072	17540	AA955914	f, pp		EST, Weakly similar to A38712 fibrillarin [H.sapiens], EST, Weakly similar to FBRL MOUSE FIBRILLARIN [M.musculus], ESTs, Moderately similar to FIBRILLARIN [M.musculus], expressed sequence AI022665, fibrillarin
3610	24442	NM_022667	u, General, rr		EST, Weakly similar to A41120 prostaglandin transporter - rat [R.norvegicus], ESTs, Weakly similar to JC7286 liver-specific organic anion transporter-1 - mouse [M.musculus], ESTs, Weakly similar to PGT_HUMAN PROSTAGLANDIN TRANSPORTER [H.sapiens], expressed sequence AI060904, solute carrier family 21 (organic anion transporter), member 11, solute carrier family 21 (organic anion transporter), member 12, solute carrier family 21 (prostaglandin transporter), member 2
1017	22680	AA945883	j		EST, Weakly similar to A43932 mucin 2 precursor, intestinal [H.sapiens], ESTs, Weakly similar to A43932 mucin 2 precursor, intestinal [H.sapiens], Homo sapiens mRNA for FLJ00219 protein, hepatitis A virus cellular receptor 1, mucin 5, subtype B, tracheobronchial, mucin 5, subtypes A and C, tracheobronchial/gastric
1871	7379	AI102643	d, dd, rr		EST, Weakly similar to A45017 transcription factor ISGF3 gamma chain [H.sapiens], ESTs, Moderately similar to A45017 transcription factor ISGF3 gamma chain [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3682	13633	NM_024403	w		EST, Weakly similar to A45377 transcription factor ATF4 [H.sapiens], ESTs, Highly similar to A45377 transcription factor ATF4 [H.sapiens], activating transcription factor 4, activating transcription factor 4 (tax-responsive enhancer element B67), activating transcription factor 5
3682	13634	NM_024403	r, w, z, General, ee, rr		EST, Weakly similar to A45377 transcription factor ATF4 [H.sapiens], ESTs, Highly similar to A45377 transcription factor ATF4 [H.sapiens], activating transcription factor 4, activating transcription factor 4 (tax-responsive enhancer element B67), activating transcription factor 5
4034	6784	NM_053671	v		EST, Weakly similar to A47212 transcription factor TMF, TATA element modulatory factor [H.sapiens], ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], RIKEN cDNA 2400004E04 gene, RIKEN cDNA 5730504C04 gene, TATA element modulatory factor 1, myosin heavy chain IX
882	22125	AA925503	ss		EST, Weakly similar to A48045 ribosomal protein S27, cytosolic [H.sapiens], ESTs, Highly similar to A48045 ribosomal protein S27, cytosolic [H.sapiens], ribosomal protein S27 (metalloprotein 1), ribosomal protein S27-like

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4170	505	NM_133309	ss		EST, Weakly similar to A48764 calpain (EC 3.4.22.17) large chain 2, tissue-specific - rat [R.norvegicus], ESTs, Moderately similar to A Chain A, The Crystal Structure Of Calcium Free Human M-Calpain [H.sapiens], ESTs, Weakly similar to A Chain A, The Crystal Structure Of Calcium-Free Human M-Calpain [H.sapiens], ESTs, Weakly similar to A31218 calpain [H.sapiens], calpain 2, (m/II) large subunit, grancalcin, EF-hand calcium binding protein, stomach-specific calpain (nCL-2)
1255	18192	AF000899	s, tt		EST, Weakly similar to A56573 nuclear pore complex glycoprotein p62 - mouse [M.musculus], Mus musculus, clone IMAGE:5148310, mRNA, RIKEN cDNA 1700017F11 gene, melanoma antigen, family D, 3, nucleoporin 98, nucleoporin 98kD, nucleoporin p45, plasma membrane associated protein, S3-12
4459	588	X69834	a, ii, rr		EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN PRECURSOR [H.sapiens], Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330437D01:serine protease inhibitor 2-1, full insert sequence, kallikrein binding protein
3803	3292	NM_031531	dd		EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN PRECURSOR [H.sapiens], RIKEN cDNA 4833409F13 gene, serine protease inhibitor 2-2
3018	17145	M38566	b, qq		EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN PRECURSOR [H.sapiens], serine (or cysteine) proteinase inhibitor, clade F (alpha 2 antiplasmin, pigment epithelium derived factor), member 2, serine protease inhibitor 2-2
3101	17147	NM_012657	e, n, r, ii		EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN PRECURSOR [H.sapiens], serine (or cysteine) proteinase inhibitor, clade F (alpha 2 antiplasmin, pigment epithelium derived factor), member 2, serine protease inhibitor 2-2



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3101	17148	NM_012657	r, ii		EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN PRECURSOR [H.sapiens], serine (or cysteine) proteinase inhibitor, clade F (alpha 2 antiplasmin, pigment epithelium derived factor), member 2, serine protease inhibitor 2-2
4478	17146	Y07534	b, qq		EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN PRECURSOR [H.sapiens], serine (or cysteine) proteinase inhibitor, clade F (alpha 2 antiplasmin, pigment epithelium derived factor), member 2, serine protease inhibitor 2-2
1020	18110	AA945932	u		EST, Weakly similar to ANXA_HUMAN ANNEXIN XI [H.sapiens], annexin A10, annexin A3
1294	22332	AI007748	ff		EST, Weakly similar to B32891 finger protein 2, placental [H.sapiens], ESTs, Highly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], ESTs, Weakly similar to B32891 finger protein 2, placental [H.sapiens], ESTs, Weakly similar to MKR2 PROTEIN [M.musculus], ESTs, Weakly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], Pancreas zinc finger protein, see also D1Bda1012, zinc finger protein 260, zinc finger protein 63

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
639	13160	AA892531	f, pp		EST, Weakly similar to B36298 proline-rich protein PRB3S [H.sapiens], EST, Weakly similar to CGHU3B collagen alpha 3(IV) chain precursor, long splice form [H.sapiens], EST, Weakly similar to D40750 proline-rich protein PRB1/2S [H.sapiens], EST, Weakly similar to PIHUB6 salivary proline-rich protein precursor PRB1 [H.sapiens], EST, Weakly similar to PRP1_HUMAN SALIVARY PROLINE-RICH PROTEIN PRECURSOR [H.sapiens], EST, Weakly similar to PRP2 MOUSE PROLINE-RICH PROTEIN MP-2 PRECURSOR [M.musculus], EST, Weakly similar to PRPL_HUMAN SALIVARY PROLINE-RICH PROTEIN PO [H.sapiens], ESTs, Weakly similar to PRP2 MOUSE PROLINE-RICH PROTEIN MP-2 PRECURSOR [M.musculus], Mus musculus brain cDNA, clone MNCb-3966, RIKEN cDNA 1110020C13 gene, proline rich protein, proline-rich protein BstNI subfamily 1
2873	9866	AJ005424	ss		EST, Weakly similar to B36298 proline-rich protein PRB3S [H.sapiens], EST, Weakly similar to CGHU3B collagen alpha 3(IV) chain precursor, long splice form [H.sapiens], EST, Weakly similar to D40750 proline-rich protein PRB1/2S [H.sapiens], EST, Weakly similar to PIHUB6 salivary proline-rich protein precursor PRB1 [H.sapiens], EST, Weakly similar to PRP1_HUMAN SALIVARY PROLINE-RICH PROTEIN PRECURSOR [H.sapiens], mitogen-activated protein kinase 7
2873	9867	AJ005424	tt		EST, Weakly similar to B36298 proline-rich protein PRB3S [H.sapiens], EST, Weakly similar to CGHU3B collagen alpha 3(IV) chain precursor, long splice form [H.sapiens], EST, Weakly similar to D40750 proline-rich protein PRB1/2S [H.sapiens], EST, Weakly similar to PIHUB6 salivary proline-rich protein precursor PRB1 [H.sapiens], EST, Weakly similar to PRP1_HUMAN SALIVARY PROLINE-RICH PROTEIN PRECURSOR [H.sapiens], mitogen-activated protein kinase 7

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3766	17378	NM_031138	q		EST, Weakly similar to B41222 ubiquitin--protein ligase [H.sapiens], ESTs, Highly similar to ubiquitin conjugating enzyme [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to A41222 ubiquitin--protein ligase [H.sapiens], ESTs, Moderately similar to B41222 ubiquitin--protein ligase [H.sapiens], ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus], RIKEN cDNA 2610301N02 gene, expressed sequence A1327276, ubiquitin-conjugating enzyme E2A (RAD6 homolog), ubiquitin-conjugating enzyme E2A, RAD6 homolog (S. cerevisiae), ubiquitin-conjugating enzyme E2B (RAD6 homolog), ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae), ubiquitin-conjugating enzyme E2C
3766	17379	NM_031138	General		EST, Weakly similar to B41222 ubiquitin--protein ligase [H.sapiens], ESTs, Highly similar to ubiquitin conjugating enzyme [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to A41222 ubiquitin--protein ligase [H.sapiens], ESTs, Moderately similar to B41222 ubiquitin--protein ligase [H.sapiens], ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus], RIKEN cDNA 2610301N02 gene, expressed sequence A1327276, ubiquitin-conjugating enzyme E2A (RAD6 homolog), ubiquitin-conjugating enzyme E2A, RAD6 homolog (S. cerevisiae), ubiquitin-conjugating enzyme E2B (RAD6 homolog), ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae), ubiquitin-conjugating enzyme E2C
1120	2205	AA963808	t		EST, Weakly similar to B54857 transcription factor NF-AT 90K chain [H.sapiens], ESTs, Moderately similar to zinc finger RNA binding protein [Mus musculus] [M.musculus], KIAA1086 protein, expressed sequence AW045600, interleukin enhancer binding factor 3, 90kD, spermatid perinuclear RNA binding protein, zinc finger RNA binding protein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4358	2010	U05675	y, vv		EST, Weakly similar to beta-fibrinogen precursor [H.sapiens], ESTs, Moderately similar to ANL2_MOUSE Angiopoietin-related protein 2 precursor (Angiopoietin-like 2) [M.musculus], ESTs, Weakly similar to FIBB_RAT Fibrinogen beta chain precursor [Contains: Fibrinopeptide B] [R.norvegicus], Mus musculus, Similar to angiopoietin-related protein 5, clone MGC:32467 IMAGE:5049765, mRNA, complete cds, Mus musculus, Similar to fibrinogen-like 1, clone MGC:37822 IMAGE:5098805, mRNA, complete cds, angiopoietin-like 2, expressed sequence AI593246
946	2762	AA944165	c		EST, Weakly similar to C10 MOUSE PUTATIVE C10 PROTEIN [M.musculus], hypothetical protein BC009925
1145	2326	AA964892	ii		EST, Weakly similar to CA14_HUMAN COLLAGEN ALPHA 1(IV) CHAIN PRECURSOR [H.sapiens], procollagen, type IV, alpha 1, procollagen, type IV, alpha 5
2851	18338	AI639422	g		EST, Weakly similar to CAQC_RAT CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR [R.norvegicus], ESTs, Highly similar to CAQS MOUSE CALSEQUESTRIN, SKELETAL MUSCLE ISOFORM PRECURSOR [M.musculus], calsequestrin 1, calsequestrin 1 (fast-twitch, skeletal muscle), calsequestrin 2, calsequestrin 2 (cardiac muscle)
358	14292	AA851791	c		EST, Weakly similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], ESTs, Highly similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], ESTs, Moderately similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], ESTs, Weakly similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], bromodomain containing 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1032	18280	AA946361	c		EST, Weakly similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], ESTs, Highly similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], ESTs, Moderately similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], ESTs, Weakly similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus], bromodomain containing 2
2886	5082	D14015	ii, ww		EST, Weakly similar to CGE1_RAT G1/S-specific cyclin E1 [R.norvegicus], ESTs, Weakly similar to CGE1_RAT G1/S-specific cyclin E1 [R.norvegicus], cyclin E1, cyclin E2
1979	11192	AI111986	g		EST, Weakly similar to CGHU1B collagen alpha 4(IV) chain precursor [H.sapiens], ESTs, Highly similar to CGHU1B collagen alpha 4(IV) chain precursor [H.sapiens], ESTs, Weakly similar to S41067 collagen alpha 1(III) chain - rat [R.norvegicus], Mus musculus, Similar to putative protein phosphatase 1 nuclear targeting subunit, clone IMAGE:3157989, mRNA, partial cds, collagen type V, alpha 2, collagen, type IV, alpha 4, procollagen, type III, alpha 1, procollagen, type IV, alpha 2, procollagen, type IV, alpha 4
2383	2825	AI178752	l, nn		EST, Weakly similar to CLN3_HUMAN CLN3 PROTEIN [H.sapiens], Homo sapiens clone 319 CLN3 protein (CLN3) mRNA, complete cds, expressed sequence AI323623
3753	16929	NM_031108	h, l, w, z, General, ee, ii, ll		EST, Weakly similar to COLLAGEN ALPHA 2(VI) CHAIN PRECURSOR [M.musculus], Mus musculus, Similar to splicing factor, arginine/serine-rich 8 (suppressor-of-white-apricot homolog, Drosophila), clone MGC:31019 IMAGE:5006904, mRNA, complete cds, RIKEN cDNA 3010033P07 gene, expressed sequence AL022771, expressed sequence AL022885, ribosomal protein S9
1825	11183	AI100768	b		EST, Weakly similar to CRMS2 carbonate dehydratase [M.musculus], carbonic anhydrase 2, carbonic anhydrase I, carbonic anhydrase II, carbonic anhydrase-like sequence 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
363	16409	AA852027	pp		EST, Weakly similar to DIA1_HUMAN DIAPHANOUS PROTEIN HOMOLOG 1 [H.sapiens], Homo sapiens cDNA: FLJ22382 fis, clone HRC07514
1339	9746	AI009555	d, g		EST, Weakly similar to DYJ2_HUMAN DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC [H.sapiens], LIC-2 dynein light intermediate chain 53/55, RIKEN cDNA 1110053F02 gene, dynein light chain-A, dynein, cytoplasmic, light intermediate polypeptide 2, expressed sequence AA409702
2919	9745	H31847	c, h		EST, Weakly similar to DYJ2_HUMAN DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC [H.sapiens], LIC-2 dynein light intermediate chain 53/55, RIKEN cDNA 1110053F02 gene, dynein light chain-A, dynein, cytoplasmic, light intermediate polypeptide 2, expressed sequence AA409702
3719	16210	NM_031026	r, w		EST, Weakly similar to DYJ2_HUMAN DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC [H.sapiens], RIKEN cDNA 1110053F02 gene, Rattus norvegicus dynein light intermediate chain 1 mRNA, complete cds, dynein light chain-A, dynein, cytoplasmic, light intermediate polypeptide 2, expressed sequence AA409702
4416	15653	X14210	ee, ll		EST, Weakly similar to G02526 NADH dehydrogenase [H.sapiens], NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (13kD, B13), RIKEN cDNA 2900002J19 gene
3696	15186	NM_030861	g, p, General, rr		EST, Weakly similar to GNT1_RAT Alpha-1,3-mannosyl-glycoprotein beta-1,2-N-acetylglucosaminyltransferase (N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase I) (GNT-I) (GlcNAc-T I) [R.norvegicus], RIKEN cDNA 4930467B06 gene, mannoside acetylglucosaminyltransferase 1, mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3696	15187	NM_030861	n, z, General, rr		EST, Weakly similar to GNT1_RAT Alpha-1,3-mannosyl-glycoprotein beta-1,2-N-acetylglucosaminyltransferase (N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase I) (GNT-I) (GlcNAc-T I) [R.norvegicus], RIKEN cDNA 4930467B06 gene, mannoside acetylglucosaminyltransferase 1, mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase
3696	15188	NM_030861	d, s, General		EST, Weakly similar to GNT1_RAT Alpha-1,3-mannosyl-glycoprotein beta-1,2-N-acetylglucosaminyltransferase (N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase I) (GNT-I) (GlcNAc-T I) [R.norvegicus], RIKEN cDNA 4930467B06 gene, mannoside acetylglucosaminyltransferase 1, mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase
235	11978	AA819129	b		EST, Weakly similar to GTT1_HUMAN GLUTATHIONE S-TRANSFERASE THETA 1 [H.sapiens], Homo sapiens mRNA; cDNA DKFZp762N226 (from clone DKFZp762N226), RIKEN cDNA 4930583C14 gene, hypothetical protein HS322B1A
988	23813	AA945149	b, vv		EST, Weakly similar to GTT1_HUMAN GLUTATHIONE S-TRANSFERASE THETA 1 [H.sapiens], Homo sapiens mRNA; cDNA DKFZp762N226 (from clone DKFZp762N226), RIKEN cDNA 4930583C14 gene, hypothetical protein HS322B1A
1937	18395	AI104388	nn		EST, Weakly similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Highly similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Moderately similar to HHHU27 heat shock protein 27 [H.sapiens], heat shock 27kD protein 1
4054	15615	NM_053800	u		EST, Weakly similar to Human Thioredoxin [H.sapiens], RIKEN cDNA 4930429J24 gene, thioredoxin, thioredoxin 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3542	17100	NM_022179	d, h, l, ee		EST, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], ESTs, Moderately similar to HXK3_HUMAN HEXOKINASE TYPE III [H.sapiens], ESTs, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], hexokinase 2, hexokinase 3 (white cell)
3542	17101	NM_022179	b, General, ii, kk, ss		EST, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], ESTs, Moderately similar to HXK3_HUMAN HEXOKINASE TYPE III [H.sapiens], ESTs, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], hexokinase 2, hexokinase 3 (white cell)
4086	1288	NM_053949	l, s		EST, Weakly similar to I38465 probable potassium channel subunit [H.sapiens], potassium voltage-gated channel, subfamily H (eag-related), member 2
542	17225	AA891553	l, nn		EST, Weakly similar to IF37 MOUSE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 7 [M.musculus], eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67 kDa), eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67kD)
1228	22210	AA998690	p		EST, Weakly similar to IF6_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 6 [H.sapiens], ESTs, Highly similar to IF6_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 6 [H.sapiens], Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:6530402L05:integrin beta 4 binding protein, full insert sequence, integrin beta 4 binding protein
1931	22211	AI104279	tt		EST, Weakly similar to IF6_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 6 [H.sapiens], ESTs, Highly similar to IF6_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 6 [H.sapiens], Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:6530402L05:integrin beta 4 binding protein, full insert sequence, integrin beta 4 binding protein



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2032	7414	AI137586	n, p, z, General		EST, Weakly similar to IMB3_HUMAN IMPORTIN BETA-3 SUBUNIT [H.sapiens], Homo sapiens cDNA FLJ12978 fis, clone NT2RP2006321, RAN binding protein 6, importin 4
1219	26118	AA998471	d		EST, Weakly similar to JC1365 FK506/rapamycin-binding protein FKBP13 precursor [H.sapiens], FK506 binding protein 7, FK506 binding protein precursor
962	19480	AA944442	oo		EST, Weakly similar to JC2324 LIM protein [H.sapiens], ESTs, Weakly similar to JG0164 LIM protein, FHL4 - mouse [M.musculus], Homo sapiens cDNA FLJ13238 fis, clone OVARC1000440, Homo sapiens cDNA FLJ31627 fis, clone NT2RI2003338, RIKEN cDNA 2410002J21 gene, activator of cAMP-responsive element modulator (CREM) in testis, expressed sequence AI481106, expressed sequence AV278559, expressed sequence AW123232, hypothetical protein FLJ10044, paxillin, testis derived transcript (3 LIM domains), transforming growth factor beta 1 induced transcript 1
52	20093	AA799637	u		EST, Weakly similar to JC2324 LIM protein [H.sapiens], Homo sapiens cDNA FLJ13238 fis, clone OVARC1000440, RIKEN cDNA 2410002J21 gene, expressed sequence AV278559, expressed sequence AW123232, hypothetical protein FLJ10044, paxillin, transforming growth factor beta 1 induced transcript 1
4278	15239	NM_139114	h, l, v, General		EST, Weakly similar to JC2369 ribosomal protein L15, cytosolic [validated] - rat [R.norvegicus], ESTs, Highly similar to RL15_HUMAN 60S RIBOSOMAL PROTEIN L15 [H.sapiens], Homo sapiens, clone MGC:2392 IMAGE:2961444, mRNA, complete cds, RIKEN cDNA 2510008H07 gene, ribosomal protein L15

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3739	6348	NM_031077	mm		EST, Weakly similar to JC5111 cyclin-dependent kinase-related protein 1b - rat [R.norvegicus], EST, Weakly similar to S10889 proline-rich protein [H.sapiens], ESTs, Highly similar to KPT1 MOUSE SERINE/THREONINE-PROTEIN KINASE PCTAIRE-1 [M.musculus], ESTs, Weakly similar to KPT1 MOUSE SERINE/THREONINE-PROTEIN KINASE PCTAIRE-1 [M.musculus], PCTAIRE protein kinase 1, PCTAIRE-motif protein kinase 1
482	16327	AA875050	c, oo		EST, Weakly similar to KICE MOUSE CHOLINE/ETHANOLAMINE KINASE [M.musculus], RIKEN cDNA 4930555L11 gene, choline kinase-like, expressed sequence A197444, hypothetical protein FLJ10761
2181	6879	AI171674	t		EST, Weakly similar to LDVR_RAT Very low density lipoprotein receptor precursor (VLDL receptor) [R.norvegicus], ESTs, Weakly similar to LDVR MOUSE VERY LOW-DENSITY LIPOPROTEIN RECEPTOR PRECURSOR [M.musculus], ESTs, Weakly similar to LDVR_RAT Very low-density lipoprotein receptor precursor (VLDL receptor) [R.norvegicus], low density lipoprotein receptor-related protein 8, apolipoprotein e receptor, very low density lipoprotein receptor
3255	24867	NM_013155	t, mm		EST, Weakly similar to LDVR_RAT Very low density lipoprotein receptor precursor (VLDL receptor) [R.norvegicus], ESTs, Weakly similar to LDVR MOUSE VERY LOW-DENSITY LIPOPROTEIN RECEPTOR PRECURSOR [M.musculus], ESTs, Weakly similar to LDVR_RAT Very low-density lipoprotein receptor precursor (VLDL receptor) [R.norvegicus], low density lipoprotein receptor-related protein 8, apolipoprotein e receptor, very low density lipoprotein receptor
2736	9543	AI236164	k		EST, Weakly similar to MAN2_HUMAN ALPHA-MANNOSIDASE II [H.sapiens], mannosidase 2, alpha 1

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2984	17883	M11851	ss		EST, Weakly similar to MLRV_RAT Myosin regulatory light chain 2, ventricular/cardiac muscle isoform (MLC-2) [R.norvegicus], ESTs, Weakly similar to MLRV_RAT Myosin regulatory light chain 2, ventricular/cardiac muscle isoform (MLC-2) [R.norvegicus], myosin light chain 2, precursor lymphocyte-specific, myosin light chain, phosphorylatable, cardiac ventricles, myosin, light polypeptide 2, regulatory, cardiac, slow, myosin, light polypeptide 5, regulatory
514	24470	AA875523	jj		EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form [H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali, smooth muscle and non-muscle
514	24471	AA875523	y		EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form [H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali, smooth muscle and non-muscle
750	24473	AA894200	y		EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form [H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali, smooth muscle and non-muscle
4347	24469	S77858	m, n		EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form [H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali, smooth muscle and non-muscle

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4189	1558	NM_133554	e, pp		EST, Weakly similar to NPT1_RAT RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 1 (SODIUM/PHOSPHATE COTRANSPORTER 1) (NA(+)/PI COTRANSPORTER 1) (RENAL SODIUM- PHOSPHATE TRANSPORT PROTEIN 1) (RENAL NA+-DEPENDENT PHOSPHATE COTRANSPORTER 1) [R.norvegicus], ESTs, Weakly similar to RENAL SODIUM- DEPENDENT PHOSPHATE TRANSPORT PROTEIN 1 [M.musculus], Mus musculus, Similar to solute carrier family 17 (sodium phosphate), member 2, clone MGC:19073 IMAGE:4193755, mRNA, complete cds, expressed sequence AW261723, solute carrier family 17 (sodium phosphate), member 1, solute carrier family 17 (sodium phosphate), member 2, solute carrier family 17 (sodium phosphate), member 3, solute carrier family 17 (sodium phosphate), member 4, solute carrier family 17 vesicular glutamate transporter), member 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4189	1559	NM_133554	e		EST, Weakly similar to NPT1_RAT RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 1 (SODIUM/PHOSPHATE COTRANSPORTER 1) (NA(+)/PI COTRANSPORTER 1) (RENAL SODIUM-PHOSPHATE TRANSPORT PROTEIN 1) (RENAL NA+-DEPENDENT PHOSPHATE COTRANSPORTER 1) [R.norvegicus], ESTs, Weakly similar to RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 1 [M.musculus], Mus musculus, Similar to solute carrier family 17 (sodium phosphate), member 2, clone MGC:19073 IMAGE:4193755, mRNA, complete cds, expressed sequence AW261723, solute carrier family 17 (sodium phosphate), member 1, solute carrier family 17 (sodium phosphate), member 2, solute carrier family 17 (sodium phosphate), member 3, solute carrier family 17 (sodium phosphate), member 4, solute carrier family 17 vesicular glutamate transporter), member 1
4028	7228	NM_053654	jj		EST, Weakly similar to PA1G MOUSE PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB GAMMA SUBUNIT [M.musculus], platelet-activating factor acetylhydrolase, isoform 1b, alpha1 subunit, platelet-activating factor acetylhydrolase, isoform 1b, gamma subunit (29kD)
416	14138	AA859700	p, General		EST, Weakly similar to PPOX MOUSE PROTOPORPHYRINOGEN OXIDASE [M.musculus], protoporphyrinogen oxidase
4008	20842	NM_053590	mm		EST, Weakly similar to PRC5 MOUSE PROTEASOME COMPONENT C5 [M.musculus], ESTs, Weakly similar to PRC5 MOUSE PROTEASOME COMPONENT C5 [M.musculus], proteasome (prosome, macropain) subunit, beta type 1, proteasome (prosome, macropain) subunit beta type 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4215	3074	NM_134399	kk		EST, Weakly similar to PRO1 MOUSE PROFILIN I [M.musculus], EST, Weakly similar to PRO2_HUMAN PROFILIN II [H.sapiens], ESTs, Weakly similar to PRO2_HUMAN PROFILIN II [H.sapiens], profilin, profilin 1
4227	5208	NM_138504	w, rr		EST, Weakly similar to PRP3 MOUSE PROLINE-RICH PROTEIN MP-3 [M.musculus], ESTs, Weakly similar to PRP3 MOUSE PROLINE-RICH PROTEIN MP-3 [M.musculus], Mus musculus, clone IMAGE:5251262, mRNA, partial cds, expressed sequence C78515, pregnancy-induced growth inhibitor
3942	2577	NM_033236	u, bb		EST, Weakly similar to PRS7 MOUSE 26S PROTEASE REGULATORY SUBUNIT 7 [M.musculus], RIKEN cDNA 2300001E01 gene, proteasome (prosome, macropain) 26S subunit, ATPase 2, syntaxin 8
3770	1291	NM_031149	w		EST, Weakly similar to PRS8 MOUSE 26S PROTEASE REGULATORY SUBUNIT 8 [M.musculus], Homo sapiens mRNA; cDNA DKFZp586l1420 (from clone DKFZp586l1420); partial cds, YME1-like 1 (S. cerevisiae), hypothetical protein DKFZp667C165, protease (prosome, macropain) 26S subunit, ATPase 5, proteasome (prosome, macropain) 26S subunit, ATPase, 5, proteasome (prosome, macropain) 26S subunit, ATPase 6
3784	18373	NM_031331	ii, ww		EST, Weakly similar to PSD4_HUMAN 26S PROTEASOME REGULATORY SUBUNIT S5A [H.sapiens], proteasome (prosome, macropain) 26S subunit, non-ATPase, 4
3784	18375	NM_031331	h		EST, Weakly similar to PSD4_HUMAN 26S PROTEASOME REGULATORY SUBUNIT S5A [H.sapiens], proteasome (prosome, macropain) 26S subunit, non-ATPase, 4
3743	15201	NM_031093	gg, hh		EST, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A [M.musculus], ESTs, Weakly similar to Crystal Structure Of The Small G Protein Rap2a With Gdp {SUB 1-167 [H.sapiens], ESTs, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A [M.musculus], v-ral simian leukemia viral oncogene homolog A (ras related)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3743	15203	NM_031093	l, m, s, w, General, tt		EST, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A [M.musculus], ESTs, Weakly similar to Crystal Structure Of The Small G Protein Rap2a With Gdp {SUB 1-167 [H.sapiens], ESTs, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A [M.musculus], v-ral simian leukemia viral oncogene homolog A (ras related)
4181	16736	NM_133427	j		EST, Weakly similar to RDRTB5 cytochrome-b5 reductase (EC 1.6.2.2), microsomal form - rat [R.norvegicus], ESTs, Weakly similar to RDRTB5 cytochrome-b5 reductase (EC 1.6.2.2), microsomal form - rat [R.norvegicus], Mus musculus, clone MGC:30933 IMAGE:4018387, mRNA, complete cds, RIKEN cDNA 1810044O22 gene, RIKEN cDNA 2810034J18 gene, hypothetical protein BC008322
1886	18607	AI103105	z		EST, Weakly similar to RL12_HUMAN 60S RIBOSOMAL PROTEIN L12 [H.sapiens], ESTs, Weakly similar to RL12_HUMAN 60S RIBOSOMAL PROTEIN L12 [H.sapiens], ribosomal protein L12
4430	18606	X53504	h, j, General, gg, hh, ll		EST, Weakly similar to RL12_HUMAN 60S RIBOSOMAL PROTEIN L12 [H.sapiens], ESTs, Weakly similar to RL12_HUMAN 60S RIBOSOMAL PROTEIN L12 [H.sapiens], ribosomal protein L12
4419	19244	X15013	h, gg, hh		EST, Weakly similar to RL7A MOUSE 60S RIBOSOMAL PROTEIN L7A [M.musculus], RIKEN cDNA 4632404N19 gene, ribosomal protein L7a
1106	24156	AA957803	k		EST, Weakly similar to RNP_HUMAN RIBONUCLEASE PANCREATIC PRECURSOR [H.sapiens], ESTs, Weakly similar to RNP_HUMAN RIBONUCLEASE PANCREATIC PRECURSOR [H.sapiens], RIKEN cDNA 4930474F22 gene, ribonuclease 1, pancreatic, ribonuclease, RNase A family 1 (pancreatic)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3787	15360	NM_031335	p, v		EST, Weakly similar to RPB6_RAT DNA-directed RNA polymerase II 14.4 kDa polypeptide (RPB6) (RPB14.4) [R.norvegicus], Mus musculus E2F1-inducible (Eig4) mRNA, complete sequence, RIKEN cDNA 1810060D16 gene, polymerase (RNA) II (DNA directed) polypeptide F
3755	10878	NM_031110	j, General		EST, Weakly similar to RS11_HUMAN 40S ribosomal protein S11 [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp434A0326 (from clone DKFZp434A0326), RAD21 homolog (S. pombe), ribosomal protein S11
3909	10949	NM_031839	rr		EST, Weakly similar to S13101 cytochrome P450 c117 - rat [R.norvegicus], Mus musculus, clone MGC:25860 IMAGE:4195655, mRNA, complete cds, RIKEN cDNA 2010301M18 gene, RIKEN cDNA 2210009K14 gene, cytochrome P450, 2c29, cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19, expressed sequence A1159681, expressed sequence AW107714
1402	23768	AI011709	ii		EST, Weakly similar to S21977 Pm5 protein [H.sapiens], Homo sapiens cDNA: FLJ23491 fis, clone LNG00825, highly similar to HSPM5 Human mRNA for pM5 protein. pM5 protein
1894	2364	AI103379	General		EST, Weakly similar to S23770 ubiquitin-activating enzyme E1 [H.sapiens], ESTs, Highly similar to I63168 gene Ube1x protein rat (fragment) [R.norvegicus], ESTs, Weakly similar to I63168 gene Ube1x protein - rat (fragment) [R.norvegicus], ESTs, Weakly similar to UBIQUITIN-ACTIVATING ENZYME E1 1 [M.musculus], Homo sapiens PP3895 mRNA, complete cds, RIKEN cDNA 1300004C08 gene, RIKEN cDNA 5730469D23 gene, ubiquitin-activating enzyme E1 (A1S9T and BN75 temperature sensitivity complementing), ubiquitin-activating enzyme E1, Chr X, ubiquitin-activating enzyme E1, Chr Y 1, ubiquitin-activating enzyme E1-like



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
6	6049	AA685178	a, General, cc, rr		EST, Weakly similar to S49326 nascent polypeptide-associated complex alpha chain [H.sapiens], EST, Weakly similar to T30827 nascent polypeptide-associated complex alpha chain, non-muscle splice form - mouse [M.musculus], FKSG17, KIAA0363 protein, expressed sequence AL022831, nascent-polypeptide-associated complex alpha polypeptide
694	13856	AA893183	gg, hh		EST, Weakly similar to S57447 HPBR11-7 protein [H.sapiens], cleavage and polyadenylation specific factor 6, 68kD subunit, hypothetical protein FLJ12529
694	13857	AA893183	bb		EST, Weakly similar to S57447 HPBR11-7 protein [H.sapiens], cleavage and polyadenylation specific factor 6, 68kD subunit, hypothetical protein FLJ12529
2107	11550	AI169591	a		EST, Weakly similar to S57447 HPBR11-7 protein [H.sapiens], cleavage and polyadenylation specific factor 6, 68kD subunit, hypothetical protein FLJ12529
2225	13098	AI172610	c, ii		EST, Weakly similar to S70029 probable transmembrane protein TMC [H.sapiens], Homo sapiens cDNA FLJ14883 fis, clone PLACE1003596, moderately similar to OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT, RIKEN cDNA 1300006C19 gene, intergral membrane protein 1
3008	11956	M28255	ff		EST, Weakly similar to S71929 cytochrome-c oxidase (EC 1.9.3.1) chain VIII precursor, hepatic - mouse [M.musculus], cytochrome c oxidase, subunit VIIa, heme-regulated initiation factor 2-alpha kinase
3591	8097	NM_022536	j, q, w, x		EST, Weakly similar to secreted cyclophilin-like protein [H.sapiens], ESTs, Weakly similar to cyclophilin B [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 3732410E19 gene, peptidylprolyl isomerase (cyclophilin)-like 1, peptidylprolyl isomerase B, peptidylprolyl isomerase B (cyclophilin B), peptidylprolyl isomerase C, peptidylprolyl isomerase C (cyclophilin C)
1235	2526	AA998979	bb		EST, Weakly similar to T00051 hypothetical protein KIAA0404 [H.sapiens], Homo sapiens, clone IMAGE:4657824, mRNA, KIAA0404 protein, hypothetical protein FLJ10242

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1136	24166	AA964630	d, n		EST, Weakly similar to T02345 hypothetical protein KIAA0324 [H.sapiens], ESTs, Weakly similar to T02345 hypothetical protein KIAA0324 [H.sapiens], Homo sapiens cDNA FLJ31094 fis, clone IMR321000165, polymerase I and transcript release factor, serine/arginine repetitive matrix 2
1095	22357	AA957264	k		EST, Weakly similar to T12456 hypothetical protein DKFZp564M2423.1 [H.sapiens], ESTs, Highly similar to T12456 hypothetical protein DKFZp564M2423.1 [H.sapiens], PAI-1 mRNA-binding protein, RIKEN cDNA 1200009K13 gene, intracellular hyaluronan-binding protein
4105	16566	NM_054004	u		EST, Weakly similar to T42735 TBP-interacting protein TIP120 - rat [R.norvegicus], Homo sapiens cDNA FLJ14877 fis, clone PLACE1003044, TBP-interacting protein, expressed sequence AI195005
12	21815	AA686423	o		EST, Weakly similar to T46390 hypothetical protein DKFZp434C1920.1 [H.sapiens], hepatocellular carcinoma-associated antigen 59
3557	17158	NM_022298	c, f, vv, xx		EST, Weakly similar to TBA1 MOUSE TUBULIN ALPHA-1 CHAIN [M.musculus], tubulin, alpha-1, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 6, tubulin, alpha 7, tubulin, alpha, ubiquitous
3557	17160	NM_022298	nn		EST, Weakly similar to TBA1 MOUSE TUBULIN ALPHA-1 CHAIN [M.musculus], tubulin, alpha 1, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 6, tubulin, alpha 7, tubulin, alpha, ubiquitous
3557	17161	NM_022298	y, nn, tt		EST, Weakly similar to TBA1 MOUSE TUBULIN ALPHA-1 CHAIN [M.musculus], tubulin, alpha 1, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 6, tubulin, alpha 7, tubulin, alpha, ubiquitous
317	13975	AA850450	xx		EST, Weakly similar to TBB5 MOUSE TUBULIN BETA-5 CHAIN [M.musculus], RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 5, tubulin, beta polypeptide, tubulin, beta, 2, tubulin, beta, 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
442	13974	AA860030	n, qq, ss		EST, Weakly similar to TBB5 MOUSE TUBULIN BETA-5 CHAIN [M.musculus], RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 5, tubulin, beta polypeptide, tubulin, beta, 2, tubulin, beta. 5
1248	13973	AB011679	y, ee		EST, Weakly similar to TBB5 MOUSE TUBULIN BETA-5 CHAIN [M.musculus], RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 5, tubulin, beta polypeptide, tubulin, beta, 2, tubulin, beta. 5
2521	13977	AI229707	j, bb, nn		EST, Weakly similar to TBB5 MOUSE TUBULIN BETA-5 CHAIN [M.musculus], RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 5, tubulin, beta polypeptide, tubulin, beta, 2, tubulin, beta. 5
1079	11050	AA956164	ii		EST, Weakly similar to TCPE MOUSE T-COMPLEX PROTEIN 1, EPSILON SUBUNIT [M.musculus], ESTs, Weakly similar to JQ0866 T-complex protein 1 - rat [R.norvegicus], T-complex 1, chaperonin containing TCP1, subunit 5 (epsilon), chaperonin containing TCP1, subunit 7 (eta), chaperonin subunit 5 (epsilon), chaperonin subunit 7 (eta), t-complex protein 1
874	23159	AA925318	l, q, x, dd		EST, Weakly similar to TRI9_HUMAN THYROID RECEPTOR INTERACTING PROTEIN 9 [H.sapiens], nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, beta, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
754	15274	AA894258	General, kk		EST, Weakly similar to UB5C_HUMAN Ubiquitin-conjugating enzyme E2-17 kDa 3 (Ubiquitin-protein ligase) (Ubiquitin carrier protein) (E2(17)KB 3) [R.norvegicus], ESTs, Weakly similar to S53358 ubiquitin- conjugating enzyme E2.17kB - rat [R.norvegicus], Homo sapiens EST from clone 37208, full insert, RIKEN cDNA 1100001F19 gene, RIKEN cDNA 1600028I17 gene, prefoldin 5, ubiquitin- conjugating enzyme E2D 3 (UBC4/5 homolog yeast)
3777	15277	NM_031237	n		EST, Weakly similar to UB5C_HUMAN Ubiquitin-conjugating enzyme E2-17 kDa 3 (Ubiquitin-protein ligase) (Ubiquitin carrier protein) (E2(17)KB 3) [R.norvegicus], ESTs, Weakly similar to S53358 ubiquitin- conjugating enzyme E2.17kB - rat [R.norvegicus], Homo sapiens EST from clone 37208, full insert, RIKEN cDNA 1100001F19 gene, RIKEN cDNA 1600028I17 gene, prefoldin 5, ubiquitin- conjugating enzyme E2D 3 (UBC4/5 homolog yeast)
4292	1623	NM_144757	s		EST, Weakly similar to ZF37_RAT Zinc finger protein 37 (Zfp-37) [R.norvegicus], ESTs, Weakly similar to ZF29 MOUSE ZINC FINGER PROTEIN 29 [M.musculus], ESTs, Weakly similar to ZF93_MOUSE ZINC FINGER PROTEIN 93 (ZFP-93) [M.musculus], expressed sequence AW557864, zinc finger protein 29, zinc finger protein 37, zinc finger protein 37 homolog (mouse)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
410	11317	AA859631	oo		EST, Weakly similar to ZF37_RAT Zinc finger protein 37 (Zfp-37) [R.norvegicus], ESTs, Weakly similar to ZF90 MOUSE ZINC FINGER PROTEIN 90 [M.musculus], ESTs, Weakly similar to ZF93_MOUSE ZINC FINGER PROTEIN 93 (ZFP-93) [M.musculus], Homo sapiens cDNA FLJ31413 fis, clone NT2NE2000259, moderately similar to OOCYTE ZINC FINGER PROTEIN XLCOF6.1, Homo sapiens mRNA for HKR1, partial cds, Homo sapiens, clone IMAGE:3546283, mRNA, partial cds, RIKEN cDNA 2610008E11 gene, RIKEN cDNA 9030409O18 gene, zinc finger protein 37, zinc finger protein 37 homolog (mouse)
4302	16343	NM_145724	uu		EST, Weakly similar to ZF94_RAT Zinc finger protein 94 (Zfp-94) (Zinc finger protein Y1) (RLZF-Y) [R.norvegicus], ESTs, Moderately similar to I37956 zinc finger protein kox17 [H.sapiens], ESTs, Weakly similar to ZF94_MOUSE ZINC FINGER PROTEIN 94 (ZFP-94) [M.musculus], ESTs, Weakly similar to ZF94_RAT Zinc finger protein 94 (Zfp-94) (Zinc finger protein Y1) (RLZF-Y) [R.norvegicus], Homo sapiens cDNA FLJ30551 fis, clone BRAWH2001503, KIAA0426 gene product, hypothetical protein FLJ12298, zinc finger protein 99
4302	16345	NM_145724	j, uu		EST, Weakly similar to ZF94_RAT Zinc finger protein 94 (Zfp-94) (Zinc finger protein Y1) (RLZF-Y) [R.norvegicus], ESTs, Moderately similar to I37956 zinc finger protein kox17 [H.sapiens], ESTs, Weakly similar to ZF94_MOUSE ZINC FINGER PROTEIN 94 (ZFP-94) [M.musculus], ESTs, Weakly similar to ZF94_RAT Zinc finger protein 94 (Zfp-94) (Zinc finger protein Y1) (RLZF-Y) [R.norvegicus], Homo sapiens cDNA FLJ30551 fis, clone BRAWH2001503, KIAA0426 gene product, hypothetical protein FLJ12298, zinc finger protein 99

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1427	1263	AI012567	bb		EST, Weakly similar to ZF94_RAT Zinc finger protein 94 (Zfp-94) (Zinc finger protein Y1) (RLZF-Y) [R.norvegicus], ESTs, Moderately similar to I37956 zinc finger protein kox17 [H.sapiens], Rattus norvegicus zinc finger protein Y1 (RLZF-Y) mRNA, complete cds, SCAN domain containing 1, SCAN domain-containing 1, zinc finger protein 99
3432	20351	NM_019142	kk		ESTs, Highly similar to 5'-AMP-activated protein kinase alpha-1 catalytic subunit [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 1200013B22 gene, SNF related kinase, SNF1-like kinase, expressed sequence AI194361, protein kinase, AMP-activated, alpha 1 catalytic subunit, serine/threonine kinase 11, serine/threonine kinase 11 (Peutz-Jeghers syndrome)
1091	6174	AA957063	tt		ESTs, Highly similar to basic leucine-zipper protein BZAP45; KIAA0005 gene product [Homo sapiens] [H.sapiens], ESTs, Highly similar to E2BE RAT TRANSLATION INITIATION FACTOR EIF-2B EPSILON SUBUNIT [R.norvegicus], Homo sapiens cDNA FLJ31838 fis, clone NT2RP7000076, weakly similar to TRANSLATION INITIATION FACTOR EIF-2B EPSILON SUBUNIT, RIKEN cDNA 1200015E15 gene, eukaryotic translation initiation factor 2B, subunit 5 (epsilon, 82kD), expressed sequence C81315, initiation factor eIF-2Be
1764	7092	AI071668	c		ESTs, Highly similar to basic leucine-zipper protein BZAP45; KIAA0005 gene product [Homo sapiens] [H.sapiens], ESTs, Highly similar to E2BE RAT TRANSLATION INITIATION FACTOR EIF-2B EPSILON SUBUNIT [R.norvegicus], Homo sapiens cDNA FLJ31838 fis, clone NT2RP7000076, weakly similar to TRANSLATION INITIATION FACTOR EIF-2B EPSILON SUBUNIT, RIKEN cDNA 1200015E15 gene, eukaryotic translation initiation factor 2B, subunit 5 (epsilon, 82kD), expressed sequence C81315, initiation factor eIF-2Be

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4033	24204	NM_053670	b, General, uu		ESTs, Highly similar to calcitonin gene-related peptide-receptor component protein [Homo sapiens] [H.sapiens], calcitonin gene-related peptide-receptor component protein
4060	6110	NM_053824	x		ESTs, Highly similar to casein kinase II, alpha 1 polypeptide [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to casein kinase II, alpha 1 polypeptide [Rattus norvegicus] [R.norvegicus], casein kinase 2, alpha 1 polypeptide, casein kinase 2, alpha prime polypeptide, casein kinase II, alpha 1 polypeptide, casein kinase II, alpha 1 related sequence 4, casein kinase II, alpha 2 polypeptide
3933	1573	NM_032083	bb, ss		ESTs, Highly similar to chimerin (chimaerin) 1 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to chimerin (chimaerin) 1 [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to hypothetical protein DKFZp564B1162, clone MGC:32510 IMAGE:5064885, mRNA, complete cds, Mus musculus, clone MGC:28436 IMAGE:4038635, mRNA, complete cds, RIKEN cDNA 1700112L09 gene, RIKEN cDNA 2310069I04 gene, RIKEN cDNA 5133400C09 gene, Rho GTPase activating protein 4, breakpoint cluster region
2243	18507	AI175551	z		ESTs, Highly similar to eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 1 [Homo sapiens] [H.sapiens], eukaryotic translation elongation factor 1 beta 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2915	4352	H31692	x		ESTs, Highly similar to GERp95 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to I2C1_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 2C 1 [H.sapiens], ESTs, Moderately similar to I2C2_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 2C 2 [H.sapiens], ESTs, Weakly similar to GERp95 [Rattus norvegicus] [R.norvegicus], Mus musculus, eukaryotic translation initiation factor 2C, 2, clone MGC:38662 IMAGE:5356426, mRNA, complete cds, RIKEN cDNA 5730550L01 gene, eukaryotic translation initiation factor 2C, 1, eukaryotic translation initiation factor 2C, 2, expressed sequence AW048688, hypothetical protein FLJ12765, piwi like homolog 1 (Drosophila)
4235	5283	NM_138535	xx		ESTs, Highly similar to Glutamate receptor interacting protein [Rattus norvegicus] [R.norvegicus], Glutamate receptor interacting protein, RIKEN cDNA 4931400F03 gene, channel-interacting PDZ domain protein, multiple PDZ domain protein, syntrophin, alpha 1 (dystrophin-associated protein A1, 59kD, acidic component)
1677	965	AI059340	I		ESTs, Highly similar to huntingtin-associated protein interacting protein (duo) [Rattus norvegicus] [R.norvegicus], death-associated kinase 3, expressed sequence AA408740, expressed sequence AI120141, faciogenital dysplasia (Aarskog-Scott syndrome), faciogenital dysplasia homolog, serine/threonine kinase with Dbl- and pleckstrin homology domains, triple functional domain (PTPRF interacting)
3929	964	NM_032062	v		ESTs, Highly similar to huntingtin-associated protein interacting protein (duo) [Rattus norvegicus] [R.norvegicus], death-associated kinase 3, expressed sequence AA408740, expressed sequence AI120141, faciogenital dysplasia (Aarskog-Scott syndrome), faciogenital dysplasia homolog, serine/threonine kinase with Dbl- and pleckstrin homology domains, triple functional domain (PTPRF interacting)



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
42	16576	AA799570	c, u		ESTs, Highly similar to hypothetical protein FLJ13725; KIAA1930 protein [Homo sapiens] [H.sapiens]
1960	18742	AI105131	bb, qq		ESTs, Highly similar to lung alpha/beta hydrolase 1; alpha/beta hydrolase-1 [Mus musculus] [M.musculus], lung alpha/beta hydrolase 1, lung alpha/beta hydrolase 3
38	17599	AA799539	o		ESTs, Highly similar to lymphocyte activation-associated protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to KEAP_RAT Kelch-like ECH-associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) [R.norvegicus], Kelch-like ECH-associated protein 1, Mus musculus, Similar to KIAA0952 protein, clone MGC:25591 IMAGE:4011475, mRNA, complete cds, RIKEN cDNA 2700038B03 gene, kelch-like ECH-associated protein 1
1190	13330	AA997716	ll		ESTs, Highly similar to lymphocyte activation-associated protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to KEAP_RAT Kelch-like ECH-associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) [R.norvegicus], Kelch-like ECH-associated protein 1, Mus musculus, Similar to KIAA0952 protein, clone MGC:25591 IMAGE:4011475, mRNA, complete cds, RIKEN cDNA 2700038B03 gene, kelch-like ECH-associated protein 1
3702	1991	NM_030995	xx		ESTs, Highly similar to microtubule-associated protein 1a [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to microtubule-associated protein 1a [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to microtubule-associated protein 1a [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to MAPA_MOUSE Microtubule-associated protein 1A (MAP 1A) [M.musculus], chromatin assembly factor 1, subunit A (p150), expressed sequence A1853608, microtubule-associated protein 1A

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2403	17890	AI179123	j, mm		ESTs, Highly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus], NF-E2-related factor 2, nuclear factor (erythroid-derived 2)-like 1, nuclear factor (erythroid-derived 2)-like 2, nuclear factor, erythroid derived 2, like 1, nuclear, factor, erythroid derived 2 like 2
3893	1169	NM_031789	d, w, bb, ll		ESTs, Highly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus], nuclear factor (erythroid-derived 2)-like 2, nuclear factor, erythroid derived 2, like 3, nuclear, factor, erythroid derived 2, like 2
3893	1170	NM_031789	d, ll		ESTs, Highly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus], nuclear factor (erythroid-derived 2)-like 2, nuclear factor, erythroid derived 2, like 3, nuclear, factor, erythroid derived 2, like 2
4115	20254	NM_057116	ii		ESTs, Highly similar to protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to JC7153 phosphoprotein phosphatase [H.sapiens], protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform
474	16215	AA874999	j		ESTs, Highly similar to protein translocation complex beta; protein transport protein SEC61 beta subunit [Homo sapiens] [H.sapiens], protein translocation complex beta
133	16463	AA800663	k		ESTs, Highly similar to RAN binding protein 16 [Mus musculus] [M.musculus], ESTs, Moderately similar to RAN binding protein 16 [Homo sapiens] [H.sapiens], RAN binding protein 16

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4116	23310	NM_057119	w		ESTs, Highly similar to TLS-associated serine-arginine protein 1, isoform 1; TLS-associated serine-arginine protein 1; TLS-associated protein TASR [Homo sapiens] [H.sapiens], ESTs, Weakly similar to splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10 [Rattus norvegicus] [R.norvegicus], Mus musculus hexaribonucleotide binding protein 3 (Hmbp3) mRNA, partial cds, RIKEN cDNA 1500010G04 gene, neural-salient serine/arginine-rich, silica-induced gene 41, splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila)
1889	15981	AI103150	nn		ESTs, Highly similar to ubiquitin conjugating enzyme [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to A41222 ubiquitin-protein ligase [H.sapiens], ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus], RIKEN cDNA 2610301N02 gene, expressed sequence AI327276, ubiquitin conjugating enzyme, ubiquitin-conjugating enzyme E2A, RAD6 homolog (S. cerevisiae), ubiquitin-conjugating enzyme E2B (RAD6 homolog), ubiquitin-conjugating enzyme E2B, RAD6 homolog (S. cerevisiae), ubiquitin-conjugating enzyme E2C
1363	8047	AI010100	e		ESTs, Highly similar to vacuolar protein sorting 18 (yeast), isoform 1; vacuolar protein sorting protein 18 [Homo sapiens] [H.sapiens], vacuolar protein sorting protein 18

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4061	1601	NM_053826	t		ESTs, Highly similar to [PYRUVATE DEHYDROGENASE(LIPOAMIDE)] KINASE ISOZYME 1 PRECURSOR [R.norvegicus], ESTs, Weakly similar to A49686 [pyruvate dehydrogenase (lipoamide)] kinase (EC 2.7.1.99) precursor - rat [R.norvegicus], ESTs, Weakly similar to PDK4_MOUSE [PYRUVATE DEHYDROGENASE [LIPOAMIDE]] KINASE ISOZYME 4, MITOCHONDRIAL PRECURSOR (PYRUVATE DEHYDROGENASE KINASE ISOFORM 4) [M.musculus], Mus musculus, Similar to pyruvate dehydrogenase kinase, isoenzyme 1, clone MGC:28719 IMAGE:4458562, mRNA, complete cds, Mus musculus, Similar to pyruvate dehydrogenase kinase, isoenzyme 3, clone MGC:6383 IMAGE:3500763, mRNA, complete cds, pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase, isoenzyme 3
3609	12542	NM_022647	c, d, qq		ESTs, Highly similar to 0506206A histone H2B [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to I48401 histone H2b - mouse [M.musculus], H2B histone family, member A, H2B histone family, member D, H2B histone family, member G, H2B histone family, member K, Mus musculus, Similar to H2B histone family, member J, clone MGC:29103 IMAGE:5003093, mRNA, complete cds
3608	2250	NM_022643	c, d, m, cc, kk, qq, vv		ESTs, Highly similar to 0506206A histone H2B [Rattus norvegicus] [R.norvegicus], H2B histone family, member A, H2B histone family, member B, H2B histone family, member D, H2B histone family, member G, H2B histone family, member H, H2B histone family, member K, histone family member
513	17314	AA875509	r		ESTs, Highly similar to 1814460A p53-associated protein [H.sapiens], Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse)
2860	20082	AI639488	h, r, General, ii		ESTs, Highly similar to 1814460A p53-associated protein [H.sapiens], Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse), transformed mouse 3T3 cell double minute 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
606	17350	AA892240	k		ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], SET translocation, SET translocation (myeloid leukemia-associated)
3449	2933	NM_019204	e, m		ESTs, Highly similar to A Chain A, Structure Of Beta-Secretase Complexed With Inhibitor (SUB 56-446 [H.sapiens], ESTs, Moderately similar to BACE_RAT Beta-secretase precursor (Beta-site APP cleaving enzyme) (Beta-site amyloid precursor protein cleaving enzyme) (Aspartyl protease 2) (Asp 2) (ASP2) (Membrane-associated aspartic protease 2) (Memapsin-2) [R.norvegicus], ESTs, Weakly similar to BACE_RAT Beta-secretase precursor (Beta-site APP cleaving enzyme) (Beta-site amyloid precursor protein cleaving enzyme) (Aspartyl protease 2) (Asp 2) (ASP2) (Membrane-associated aspartic protease 2) (Memapsin-2) [R.norvegicus], beta-site APP cleaving enzyme, beta-site APP-cleaving enzyme 2
2988	24554	M13749	m		ESTs, Highly similar to A25951 placental lactogen II - rat [R.norvegicus], Rattus norvegicus PLP-H mRNA for prolactin-like protein H, complete cds, placental lactogen 2, prolactin
3417	20848	NM_017343	x		ESTs, Highly similar to A37100 myosin regulatory light chain A, smooth muscle - rat [R.norvegicus], RIKEN cDNA 2900073G15 gene, myosin light chain, phosphorylatable, cardiac ventricles, myosin regulatory light chain, myosin, light polypeptide, regulatory, non-sarcomeric (20kD)
3417	20849	NM_017343	r, ff		ESTs, Highly similar to A37100 myosin regulatory light chain A, smooth muscle - rat [R.norvegicus], RIKEN cDNA 2900073G15 gene, myosin light chain, phosphorylatable, cardiac ventricles, myosin regulatory light chain, myosin, light polypeptide, regulatory, non-sarcomeric (20kD)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2472	16970	AI228112	tt		ESTs, Highly similar to A38351 phosphoprotein phosphatase 2-alpha regulatory chain [H.sapiens], RIKEN cDNA 2410004D02 gene, protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform
4103	16965	NM_053999	v		ESTs, Highly similar to A38351 phosphoprotein phosphatase 2-alpha regulatory chain [H.sapiens], RIKEN cDNA 2410004D02 gene, protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform
4110	17709	NM_057101	y		ESTs, Highly similar to A45445 janusin precursor, long form - rat [R.norvegicus], ESTs, Weakly similar to JQ1322 tenascin precursor - mouse [M.musculus], Tenascin-R (Restrictin, janusin, J1-160/180), tenascin R (restrictin, janusin), tenascin XB
3099	18726	NM_012645	b, q, v, General, dd, oo, rr		ESTs, Highly similar to A45840 MHC class I histocompatibility antigen RT-BM1 alpha chain - rat (fragment) [R.norvegicus], Homo sapiens, clone IMAGE:4694038, mRNA, partial cds, histocompatibility 2, T region locus 23
3518	18724	NM_021585	b, ss		ESTs, Highly similar to A45840 MHC class I histocompatibility antigen RT-BM1 alpha chain - rat (fragment) [R.norvegicus], Homo sapiens, clone IMAGE:4694038, mRNA, partial cds, histocompatibility 2, T region locus 23
1605	11763	AI045196	tt		ESTs, Highly similar to A47328 natural killer cell tumor-recognition protein [H.sapiens]
4186	1791	NM_133541	ww		ESTs, Highly similar to A56011 transcription factor IIIc alpha chain - rat [R.norvegicus], ESTs, Moderately similar to A56011 transcription factor IIIc alpha chain - rat [R.norvegicus], ESTs, Weakly similar to A56011 transcription factor IIIc alpha chain - rat [R.norvegicus], general transcription factor III C 1, general transcription factor IIIc, polypeptide 1 (alpha subunit, 220kD)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1099	24050	AA957449	v		ESTs, Highly similar to A57286 probable serine/threonine protein kinase [M.musculus], ESTs, Highly similar to SNK_RAT Serine/threonine-protein kinase SNK (Serum inducible kinase) [R.norvegicus], ESTs, Weakly similar to A57286 probable serine/threonine protein kinase [M.musculus], ESTs, Weakly similar to SNK_RAT Serine/threonine-protein kinase SNK (Serum inducible kinase) [R.norvegicus], Homo sapiens cDNA FLJ30246 fis, clone BRACE2002202, weakly similar to SERINE/THREONINE-PROTEIN KINASE SNK (EC 2.7.1.-), NIMA (never in mitosis gene a)-related expressed kinase 1, serum-inducible kinase
4214	1530	NM_134397	h, vv		ESTs, Highly similar to A59252 myosin heavy chain, nonmuscle, form IIB [H.sapiens], ESTs, Weakly similar to neuronal thread protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to LORICRIN [M.musculus], Homo sapiens mRNA; cDNA DKFZp434G227 (from clone DKFZp434G227), Homo sapiens, clone IMAGE:4111094, mRNA, partial cds, KIAA0638 protein, Mus musculus, Similar to hypothetical protein MGC2705, clone MGC:36471 IMAGE:5359433, mRNA, complete cds, Mus musculus, clone MGC:32394 IMAGE:5037534, mRNA, complete cds, expressed sequence A1036317, expressed sequence AV253284, expressed sequence C77080, loricrin

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4050	6290	NM_053795	tt		ESTs, Highly similar to ANK1 MOUSE ANKYRIN 1 [M.musculus], ESTs, Weakly similar to ANK1 MOUSE ANKYRIN 1 [M.musculus], GASZ, Gasz, Homo sapiens cDNA FLJ25053 fis, clone CBL04266, Mus musculus ankyrin repeat domain-containing SOCS box protein Asb-16 mRNA, complete cds, Mus musculus, Similar to hypothetical protein DKFZp564O043, clone MGC:36949 IMAGE:4946879, mRNA, complete cds, RIKEN cDNA 1110058D09 gene, RIKEN cDNA 4933400N19 gene, hypothetical protein similar to ankyrin repeat-containing protein AKR1, likely homolog of rat kinase D-interacting substance of 220 kDa, regulatory factor X-associated ankyrin-containing protein
3640	20681	NM_022952	u		ESTs, Highly similar to AP19_HUMAN CLATHRIN COAT ASSEMBLY PROTEIN AP19 [H.sapiens], ESTs, Highly similar to clathrin-associated protein AP17 delta [H.sapiens], ESTs, Weakly similar to A2S1_MOUSE Clathrin coat assembly protein AP17 (Clathrin coat associated protein AP17) (Plasma membrane adaptor AP-2 17 kDa protein) (HA2 17 kDa subunit) (Clathrin assembly protein 2 small chain) [R.norvegicus]; Homo sapiens, clone MGC:17284 IMAGE:4340257, mRNA, complete cds, adaptor-related protein complex 2, sigma 1 subunit, expressed sequence A1042089
999	22607	AA945580	b		ESTs, Highly similar to ARG2_RAT Arginase II, mitochondrial precursor (Non-hepatic arginase) (Kidney-type arginase) [R.norvegicus], RIKEN cDNA 5033405N08 gene, agmatine ureohydrolase (agmatinase), arginase type II, arginase, type II
3481	17507	NM_019299	w		ESTs, Highly similar to B Chain B, Peptide-In-Groove Interactions Link Target Proteins To The B-Propeller Of Clathrin [R.norvegicus], RIKEN cDNA 1700034F02 gene, clathrin, heavy polypeptide (Hc), clathrin, heavy polypeptide-like 1, expressed sequence R74732



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2236	6454	AI175342	p, kk		ESTs, Highly similar to BIR6_HUMAN BACULOVIRAL IAP REPEAT-CONTAINING PROTEIN 6 (UBIQUITIN-CONJUGATING BIR-DOMAIN ENZYME APOLLON) [H.sapiens], baculoviral IAP repeat- containing 6 (apollon), hypothetical protein FLJ13855, likely ortholog of mouse ubiquitin- conjugating enzyme E2-230K
4440	18924	X58830	g		ESTs, Highly similar to BMHU6 bone morphogenetic protein 6 precursor [H.sapiens], ESTs, Moderately similar to S37618 vgr protein - rat (fragment) [R.norvegicus], bone morphogenetic protein 5, bone morphogenetic protein 6, bone morphogenetic protein 7, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2)
1295	21563	AI007750	gg, hh		ESTs, Highly similar to C Chain C, Structure Of A Cbl-Ubch7 Complex: Ring Domain Function In Ubiquitin-Protein Ligases [H.sapiens], ESTs, Weakly similar to ubiquitin-conjugating enzyme E2D 2 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA: 1700013N18 gene, ubiquitin-conjugating enzyme 8, ubiquitin-conjugating enzyme E2D 2, ubiquitin-conjugating enzyme E2L 3, ubiquitin-conjugating enzyme E2L 6
3988	19199	NM_053522	u		ESTs, Highly similar to Cdc42 From Human, Nmr, 20 Structures [H.sapiens], Mus musculus mRNA for small GTPase Tc10, complete cds, cell division cycle 42 (GTP binding protein, 25kD), cell division cycle 42 homolog (S. cerevisiae), ras homolog gene family, member J, ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
3988	19200	NM_053522	k, l, s, cc		ESTs, Highly similar to Cdc42 From Human, Nmr, 20 Structures [H.sapiens], Mus musculus mRNA for small GTPase Tc10, complete cds, cell division cycle 42 (GTP binding protein, 25kD), cell division cycle 42 homolog (S. cerevisiae), ras homolog gene family, member J, ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3988	19205	NM_053522	cc, pp		ESTs, Highly similar to Cdc42 From Human, Nmr, 20 Structures [H.sapiens], Mus musculus mRNA for small GTPase Tc10, complete cds, cell division cycle 42 (GTP binding protein, 25kD), cell division cycle 42 homolog (S. cerevisiae), ras homolog gene family, member J, ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
3988	19206	NM_053522	a, cc		ESTs, Highly similar to Cdc42 From Human, Nmr, 20 Structures [H.sapiens], Mus musculus mRNA for small GTPase Tc10, complete cds, cell division cycle 42 (GTP binding protein, 25kD), cell division cycle 42 homolog (S. cerevisiae), ras homolog gene family, member J, ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
2300	23403	AI176714	bb		ESTs, Highly similar to CHD1_HUMAN CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 1 [H.sapiens], ESTs, Weakly similar to CHD1 MOUSE CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 1 [M.musculus], ESTs, Weakly similar to CHD1_HUMAN CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 1 [H.sapiens], Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110010F13:helicase, lymphoid specific, full insert sequence, chromodomain helicase DNA binding protein 1.

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3885	20752	NM_031763	ii		ESTs, Highly similar to CIA1_HUMAN WD40-REPEAT CONTAINING PROTEIN CIAO 1 [H.sapiens], ESTs, Weakly similar to LIS1_HUMAN PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA SUBUNIT [H.sapiens], ESTs, Weakly similar to LIS1_MOUSE Platelet-activating factor acetylhydrolase IB alpha subunit (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH alpha) (Lissencephaly-1 protein) (LIS-1) [R.norvegicus], F-box and WD-40 domain protein 7 (archipelago homolog, Drosophila), Homo sapiens cDNA FLJ31861 fis, clone NT2RP7001319, KIAA0007 protein, MEP50 protein, Mus musculus F-box-WD40 repeat protein 6 (Fbxw6) mRNA, complete cds, Mus musculus, Similar to RIKEN cDNA 1500041N16 gene, clone MGC:12066 IMAGE:3708188, mRNA, complete cds, hypothetical protein FLJ11848, hypothetical protein similar to beta-transducin family, platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit, platelet-activating factor acetylhydrolase, isoform 1b, alpha subunit (45kD)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3885	20753	NM_031763	I, General, dd, pp		ESTs, Highly similar to CIA1_HUMAN WD40-REPEAT CONTAINING PROTEIN CIAO 1 [H.sapiens], ESTs, Weakly similar to LIS1_HUMAN PLATELET-ACTIVATING FACTOR ACETYLDHROLASE IB ALPHA SUBUNIT [H.sapiens], ESTs, Weakly similar to LIS1_MOUSE Platelet-activating factor acetylhydrolase IB alpha subunit (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH alpha) (Lissencephaly-1 protein) (LIS-1) [R.norvegicus], F-box and WD-40 domain protein 7 (archipelago homolog, Drosophila), Homo sapiens cDNA FLJ31861 fis, clone NT2RP7001319, KIAA0007 protein, MEP50 protein, Mus musculus F-box-WD40 repeat protein 6 (Fbxw6) mRNA, complete cds, Mus musculus, Similar to RIKEN cDNA 1500041N16 gene, clone MGC:12066 IMAGE:3708188, mRNA, complete cds, hypothetical protein FLJ11848, hypothetical protein similar to beta-transducin family, platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit, platelet-activating factor acetylhydrolase, isoform 1b, alpha subunit (45kD)
4158	18846	NM_130755	b, dd		ESTs, Highly similar to citrate synthase [H.sapiens], RIKEN cDNA 1700007H16 gene, citrate synthase
4194	1164	NM_133584	g		ESTs, Highly similar to CN5A RAT CGMP-SPECIFIC 3',5'-CYCLIC PHOSPHODIESTERASE [R.norvegicus], ESTs, Weakly similar to 1617166A rod cGMP phosphodiesterase beta [M.musculus], ESTs, Weakly similar to CN5A_RAT CGMP-SPECIFIC 3',5'-CYCLIC PHOSPHODIESTERASE (CGB-PDE) (CGMP-BINDING CGMP-SPECIFIC PHOSPHODIESTERASE) [R.norvegicus], phosphodiesterase 11A, phosphodiesterase 5A, cGMP-specific

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3969	12223	NM_053370	nn, qq		ESTs, Highly similar to DDP_HUMAN X-LINKED DEAFNESS DYSTONIA PROTEIN [H.sapiens], ESTs, Moderately similar to JC7322 deafness dystonia peptide 1 - mouse [M.musculus], hypothetical protein MGC12262, translocase of inner mitochondrial membrane 8 homolog A (yeast), translocase of inner mitochondrial membrane 8 homolog a (yeast)
33	17613	AA799511	ww		ESTs, Highly similar to DDRT helix-destabilizing protein - rat [R.norvegicus], ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar to ROA2 MOUSE HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS A2/B1 [M.musculus], Mus musculus, similar to heterogeneous nuclear ribonucleoprotein A3 (H. sapiens), clone MGC:37309 IMAGE:4975085, mRNA, complete cds, RIKEN cDNA 2610510D13 gene, RIKEN cDNA 3010025E17 gene, heterogeneous nuclear ribonucleoprotein A1, heterogeneous nuclear ribonucleoprotein A2/B1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
269	17614	AA848306	t, ll, tt		ESTs, Highly similar to DDRT helix-destabilizing protein - rat [R.norvegicus], ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar to ROA2 MOUSE HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS A2/B1 [M.musculus], Mus musculus, similar to heterogeneous nuclear ribonucleoprotein A3 (H. sapiens), clone MGC:37309 IMAGE:4975085, mRNA, complete cds, RIKEN cDNA 2610510D13 gene, RIKEN cDNA 3010025E17 gene, heterogeneous nuclear ribonucleoprotein A1, heterogeneous nuclear ribonucleoprotein A2/B1
2134	23966	AI170442	t, mm		ESTs, Highly similar to DEST_HUMAN DESTRAIN [H.sapiens], Homo sapiens cDNA FLJ31388 fis, clone NT2NE1000023, cofilin 1, non-muscle, destrin, destrin (actin depolymerizing factor), destrin-2 pseudogene, expressed sequence AW987265
331	14963	AA851161	ii		ESTs, Highly similar to DYNC_HUMAN DYNACTIN, 50 KD ISOFORM [H.sapiens], dynactin 2 (p50)
680	16482	AA892940	x		ESTs, Highly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], ESTs, Weakly similar to EF2_MOUSE Elongation factor 2 (EF-2) [M.musculus], U5 small nuclear ribonucleoprotein 116 kDa, eukaryotic translation elongation factor 2
22	6581	AA799412	v		ESTs, Highly similar to ERR3_HUMAN ESTROGEN-RELATED RECEPTOR GAMMA [H.sapiens], estrogen related receptor, alpha, estrogen-related receptor alpha, estrogen-related receptor gamma
2183	6582	AI171726	bb		ESTs, Highly similar to ERR3_HUMAN ESTROGEN-RELATED RECEPTOR GAMMA [H.sapiens], estrogen related receptor, alpha, estrogen-related receptor alpha, estrogen-related receptor gamma

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3977	2242	NM_053433	I		ESTs, Highly similar to FMO3_HUMAN DIMETHYLANILINE MONOOXYGENASE [H.sapiens], ESTs, Weakly similar to FMO3_HUMAN DIMETHYLANILINE MONOOXYGENASE [H.sapiens], Mus musculus flavin-containing monooxygenase 4 mRNA, complete cds, flavin containing monooxygenase 2, flavin containing monooxygenase 3, flavin containing monooxygenase 5
4199	1546	NM_133595	a, s, uu, vv		ESTs, Highly similar to GFRP RAT GTP CYCLOHYDROLASE I FEEDBACK REGULATORY PROTEIN [R.norvegicus], GTP cyclohydrolase I feedback regulatory protein
2084	17812	AI169075	uu		ESTs, Highly similar to GTO1_RAT Glutathione transferase omega 1 (GSTO 1-1) (Glutathione-dependent dehydroascorbate reductase) [R.norvegicus], ESTs, Weakly similar to GTXH_HUMAN GLUTATHIONE-S-TRANSFERASE HOMOLO [H.sapiens], RIKEN cDNA 1700020F09 gene, glutathione S-transferase omega 1, glutathione transferase zeta 1 (maleylacetoacetate isomerase), glutathione S-transferase like; glutathione transferase omega
1368	15644	AI010256	a, d, n, kk		ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA 1810027O10 gene
2013	24212	AI136747	c		ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA 1810027O10 gene
2101	24213	AI169289	c		ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA 1810027O10 gene
2251	24214	AI175794	s		ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA 1810027O10 gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4098	15642	NM_053985	d, r, kk, rr		ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA 1810027O10 gene
4098	15645	NM_053985	n, rr		ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA 1810027O10 gene
390	19105	AA859230	v, x		ESTs, Highly similar to HG14_HUMAN NONHISTONE CHROMOSOMAL PROTEIN HMG-1 [H.sapiens], ESTs, Highly similar to HG17_RAT NONHISTONE CHROMOSOMAL PROTEIN HMG-17 [R.norvegicus], ESTs, Weakly similar to HG17_RAT NONHISTONE CHROMOSOMAL PROTEIN HMG-17 [R.norvegicus], high mobility group nucleosomal binding domain 2, high-mobility group (nonhistone chromosomal) protein 17, thyroid hormone receptor interactor 7
3421	24428	NM_017356	nn		ESTs, Highly similar to HIPP_HUMAN Neuron specific calcium-binding protein hippocalcin (P23K) (Calcium-binding protein BDR-2) [R.norvegicus], ESTs, Moderately similar to VIS3 MOUSE VISININ-LIKE PROTEIN 3 [M.musculus], Mus musculus, clone MGC:21424 IMAGE:4500919, mRNA, complete cds, expressed sequence AI848120, guanylate cyclase activator 1A (retina), guanylate cyclase activator 1B (retina), guanylate cyclase activator 1C, guanylate cyclase activator 1a (retina), hippocalcin-like 1, hypothetical protein FLJ11767, neurocalcin delta



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2740	13911	AI236262	ww		ESTs, Highly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], ESTs, Moderately similar to HMG1 MOUSE HIGH MOBILITY GROUP PROTEIN HMG1 [M.musculus], ESTs, Moderately similar to high mobility group protein homolog HMG4 [M.musculus], ESTs, Weakly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], High mobility group 1, Mus musculus thymus high mobility group box protein TOX (Tox) mRNA, complete cds, RIKEN cDNA 4932431P20 gene, high mobility group box 1, high mobility group box 3, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group (nonhistone chromosomal) protein 4
3191	19106	NM_012963	ss		ESTs, Highly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], ESTs, Moderately similar to HMG1 MOUSE HIGH MOBILITY GROUP PROTEIN HMG1 [M.musculus], ESTs, Moderately similar to high mobility group protein homolog HMG4 [M.musculus], ESTs, Weakly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], RIKEN cDNA 4932431P20 gene, Rattus norvegicus epidermal Langerhans cell protein LCP1 mRNA, complete cds, high mobility group 20A, high mobility group box 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group 20A

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3191	19107	NM_012963	cc		ESTs, Highly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], ESTs, Moderately similar to HMG1 MOUSE HIGH MOBILITY GROUP PROTEIN HMG1 [M.musculus], ESTs, Moderately similar to high mobility group protein homolog HMG4 [M.musculus], ESTs, Weakly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], RIKEN cDNA 4932431P20 gene, Rattus norvegicus epidermal Langerhans cell protein-LCP1 mRNA, complete cds, high mobility group 20A, high mobility group box 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group 20A
3191	19108	NM_012963	ii		ESTs, Highly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], ESTs, Moderately similar to HMG1 MOUSE HIGH MOBILITY GROUP PROTEIN HMG1 [M.musculus], ESTs, Moderately similar to high mobility group protein homolog HMG4 [M.musculus], ESTs, Weakly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], RIKEN cDNA 4932431P20 gene, Rattus norvegicus epidermal Langerhans cell protein LCP1 mRNA, complete cds, high mobility group 20A, high mobility group box 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group 20A

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3191	19109	NM_012963	ee		ESTs, Highly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], ESTs, Moderately similar to HMG1 MOUSE HIGH MOBILITY GROUP PROTEIN HMG1 [M.musculus], ESTs, Moderately similar to high mobility group protein homolog HMG4 [M.musculus], ESTs, Weakly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], RIKEN cDNA 4932431P20 gene, Rattus norvegicus epidermal Langerhans cell protein LCP1 mRNA, complete cds, high mobility group 20A, high mobility group box 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group 20A
3191	19110	NM_012963	jj		ESTs, Highly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], ESTs, Moderately similar to HMG1 MOUSE HIGH MOBILITY GROUP PROTEIN HMG1 [M.musculus], ESTs, Moderately similar to high mobility group protein homolog HMG4 [M.musculus], ESTs, Weakly similar to HMG1_HUMAN HIGH MOBILITY GROUP PROTEIN HMG1 [H.sapiens], RIKEN cDNA 4932431P20 gene, Rattus norvegicus epidermal Langerhans cell protein LCP1 mRNA, complete cds, high mobility group 20A, high mobility group box 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group 20A
1851	18649	A1101926	q		ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus], ESTs, Highly similar to T46243 hypothetical protein DKFZp761K0511.1 [H.sapiens], RIKEN cDNA 1810014B01 gene, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, tumor rejection antigen (gp96) 1, tumor rejection antigen gp96

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2530	18650	AI230121	q, ii, ll		ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus], ESTs, Highly similar to T46243 hypothetical protein DKFZp761K0511.1 [H.sapiens], RIKEN cDNA 1810014B01 gene, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, tumor rejection antigen (gp96) 1, tumor rejection antigen gp96
4338	18647	S69316	q, dd		ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus], ESTs, Highly similar to T46243 hypothetical protein DKFZp761K0511.1 [H.sapiens], RIKEN cDNA 1810014B01 gene, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, tumor rejection antigen (gp96) 1, tumor rejection antigen gp96
1338	19092	AI009501	h, w		ESTs, Highly similar to Human Translation Initiation Factor Eif1, Nmr, 29 Structures [H.sapiens], putative translation initiation factor, suppressor of initiator codon mutations, related sequence 1 (S. cerevisiae)
349	21489	AA851443	e		ESTs, Highly similar to I49523 Mouse primary response gene B94 mRNA, 3'end - mouse [M.musculus], RIKEN cDNA 1600013K19 gene, similar to S. cerevisiae Sec6p and R. norvegicus rsec6, tumor necrosis factor, alpha-induced protein 2
1633	21490	AI045764	jj		ESTs, Highly similar to I49523 Mouse primary response gene B94 mRNA, 3'end - mouse [M.musculus], RIKEN cDNA 1600013K19 gene, similar to S. cerevisiae Sec6p and R. norvegicus rsec6, tumor necrosis factor, alpha-induced protein 2
4371	21488	U32575	e, xx		ESTs, Highly similar to I49523 Mouse primary response gene B94 mRNA, 3'end - mouse [M.musculus], RIKEN cDNA 1600013K19 gene, similar to S. cerevisiae Sec6p and R. norvegicus rsec6, tumor necrosis factor, alpha-induced protein 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2636	12873	A1232984	tt		ESTs, Highly similar to I49636 DNA-binding protein - mouse [M.musculus], ESTs, Highly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], ESTs, Moderately similar to I49636 DNA-binding protein - mouse [M.musculus], ESTs, Weakly similar to I38616 zinc finger protein ZNF139 [H.sapiens], ESTs, Weakly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], Mus musculus, Similar to zinc finger protein 97, clone MGC:6111 IMAGE:3494875, mRNA, complete cds, Pancreas zinc finger protein, see also D1Bda10\2, zinc finger protein 260, zinc finger protein 63, zinc finger protein 97
4055	19827	NM_053806	oo		ESTs, Highly similar to I49636 DNA-binding protein - mouse [M.musculus], ESTs, Highly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], ESTs, Moderately similar to I49636 DNA-binding protein - mouse [M.musculus], ESTs, Weakly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], ESTs, Weakly similar to Z177_HUMAN ZINC FINGER PROTEIN 177 [H.sapiens], Homo sapiens mRNA; cDNA DKFZp547C146 (from clone DKFZp547C146), Mus musculus, Similar to zinc finger protein 97, clone MGC:6111 IMAGE:3494875, mRNA, complete cds, Pancreas zinc finger protein, see also D1Bda10\2, zinc finger protein 177, zinc finger protein 260, zinc finger protein 63, zinc finger protein 97

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1733	26184	AI070784	m		ESTs, Highly similar to I49636 DNA-binding protein - mouse [M.musculus], ESTs, Highly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], ESTs, Moderately similar to I49636 DNA-binding protein - mouse [M.musculus], ESTs, Weakly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], Mus musculus, Similar to zinc finger protein 97, clone MGC:6111 IMAGE:3494875, mRNA, complete cds, Pancreas zinc finger protein, see also D1Bda1012, zinc finger protein 136 (clone pHZ-20), zinc finger protein 260, zinc finger protein 63, zinc finger protein 97
3831	67	NM_031605	cc		ESTs, Highly similar to I65981 fatty acid omega-hydroxylase [H.sapiens], Homo sapiens, Similar to cytochrome P450, subfamily IVA, polypeptide 11, clone MGC:22151 IMAGE:4072062, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, expressed sequence A1314743
1048	23584	AA955071	ff		ESTs, Highly similar to I67428 retinoic acid receptor homolog - rat (fragment) [R.norvegicus], retinoid X receptor gamma, retinoid X receptor, gamma
1260	19649	AF016387	pp		ESTs, Highly similar to I67428 retinoic acid receptor homolog - rat (fragment) [R.norvegicus], retinoid X receptor gamma, retinoid X receptor, gamma
1260	19650	AF016387	s		ESTs, Highly similar to I67428 retinoic acid receptor homolog - rat (fragment) [R.norvegicus], retinoid X receptor gamma, retinoid X receptor, gamma
4093	1764	NM_053974	ff, pp		ESTs, Highly similar to IF4E_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 4E [H.sapiens], RIKEN cDNA 1300018P11 gene, RIKEN cDNA 2700069E09 gene, eukaryotic translation initiation factor 4E, eukaryotic translation initiation factor 4E-like 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2114	21660	AI169751	b, dd		ESTs, Highly similar to IFM3_HUMAN INTERFERON-INDUCED TRANSMEMBRANE PROTEIN 3 [H.sapiens], ESTs, Highly similar to S17182 interferon-induced protein 1-8U [H.sapiens], RIKEN cDNA 1110004C05 gene, interferon induced transmembrane protein 1 (9-27), interferon induced transmembrane protein 3 (1-8U)
2281	21661	AI176479	y, nn		ESTs, Highly similar to IFM3_HUMAN INTERFERON-INDUCED TRANSMEMBRANE PROTEIN 3 [H.sapiens], ESTs, Highly similar to S17182 interferon-induced protein 1-8U [H.sapiens], RIKEN cDNA 1110004C05 gene, interferon induced transmembrane protein 1 (9-27), interferon induced transmembrane protein 3 (1-8U)
4444	21657	X61381	b, x, General, bb, dd, ll, nn, qq		ESTs, Highly similar to IFM3_HUMAN INTERFERON-INDUCED TRANSMEMBRANE PROTEIN 3 [H.sapiens], ESTs, Highly similar to S17182 interferon-induced protein 1-8U [H.sapiens], RIKEN cDNA 1110004C05 gene, interferon induced transmembrane protein 1 (9-27), interferon induced transmembrane protein 3 (1-8U)
3297	80	NM_017021	cc		ESTs, Highly similar to IL9R MOUSE INTERLEUKIN-9 RECEPTOR PRECURSOR [M.musculus], Interleukin 9 receptor
2839	25942	AI639291	cc		ESTs, Highly similar to ITA8_HUMAN INTEGRIN ALPHA-8 [H.sapiens], integrin, alpha 8, integrin, alpha 9
2400	4587	AI179092	ff		ESTs, Highly similar to JC2120 heparin-binding protein 15 [H.sapiens], Homo sapiens mRNA; cDNA DKFZp586E0524 (from clone DKFZp586E0524)

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2210	2140	AI172272	gg, hh		ESTs, Highly similar to JC4577 transcription elongation factor T1 [H.sapiens], ESTs, Highly similar to Transcriptional Elongation Factor Sii [H.sapiens], ESTs, Weakly similar to JC5430 transcription elongation factor S-II-T1, testis-specific - mouse [M.musculus], Homo sapiens cDNA: FLJ23371 fis, clone HEP16068, highly similar to HSTFIISH Homo sapiens mRNA for transcription elongation factor TFIIS, PHD finger protein 3, transcription elongation factor A (SII), 3
3407	18142	NM_017314	r		ESTs, Highly similar to JE0190 polyubiquitin unit [H.sapiens], ESTs, Highly similar to UQHUC polyubiquitin 9 [H.sapiens], Homo sapiens, Similar to orosomucoid 1, clone MGC:24263 IMAGE:3934516, mRNA, complete cds, expressed sequence AL033289, ubiquitin B, ubiquitin C
4255	3015	NM_138895	h, w		ESTs, Highly similar to JE0190 polyubiquitin unit [H.sapiens], ESTs, Highly similar to UQHUC polyubiquitin 9 [H.sapiens], Homo sapiens, Similar to orosomucoid 1, clone MGC:24263 IMAGE:3934516, mRNA, complete cds, expressed sequence AL033289, ubiquitin B, ubiquitin C
2468	12413	AI227953	t, mm		ESTs, Highly similar to K6A1_RAT Ribosomal protein S6 kinase alpha 1 (S6K-alpha 1) (90 kDa ribosomal protein S6 kinase 1) (p90-RSK 1) (Ribosomal S6 kinase 1) (RSK-1) (pp90RSK1) [R.norvegicus], Mus musculus, clone IMAGE:3156601, mRNA, S6 protein kinase (Rsk-1), ribonuclease P1, ribosomal protein S6 kinase polypeptide 1, ribosomal protein S6 kinase, 90kD, polypeptide 1



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SEQ ID NO:	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
327	2847	AA850919	cc		ESTs, Highly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], ESTs, Weakly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], Homo sapiens, clone IMAGE:4793702, mRNA, Mus musculus, clone MGC:32469 IMAGE:5050433, mRNA, complete cds, crystallin, zeta, fatty acid synthase, quinone oxidoreductase homolog
521	2846	AA875639	bb, ll, rr		ESTs, Highly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], ESTs, Weakly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], Homo sapiens, clone IMAGE:4793702, mRNA, Mus musculus, clone MGC:32469 IMAGE:5050433, mRNA, complete cds, crystallin, zeta, fatty acid synthase, quinone oxidoreductase homolog
4247	891	NM_138863	x, bb		ESTs, Highly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], ESTs, Weakly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], Homo sapiens, clone IMAGE:4793702, mRNA, Mus musculus, Similar to vesicle amine transport protein 1, clone MGC:38107 IMAGE:5320239, mRNA, complete cds, RIKEN cDNA 2510002C21 gene, nuclear receptor binding factor 1, vesicle amine transport protein 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3267	1258	NM_013185	o		ESTs, Highly similar to LCK MOUSE PROTO-ONCOGENE TYROSINE-PROTEIN KINASE LCK [M.musculus], RIKEN cDNA 8430404F20 gene, hemopoietic cell kinase, lymphocyte protein tyrosine kinase, lymphocyte-specific protein tyrosine kinase, src-related kinase lacking C-terminal regulatory tyrosine and N-terminal myristylation sites
3258	3465	NM_013160	ww		ESTs, Highly similar to MXI1_RAT MAX interacting protein 1 (MXI1 protein) [R.norvegicus], ESTs, Weakly similar to MXI1_RAT MAX interacting protein 1 (MXI1 protein) [R.norvegicus], MAX dimerization protein, MAX interacting protein 1, Max interacting protein 1
3270	1969	NM_013194	k, t, mm		ESTs, Highly similar to MYH9_RAT Myosin heavy chain, nonmuscle type A (Cellular myosin heavy chain, type A) (Nonmuscle myosin heavy chain-A) (NMMHC-A) [R.norvegicus], ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to MYH9_RAT Myosin heavy chain, nonmuscle type A (Cellular myosin heavy chain, type A) (Nonmuscle myosin heavy chain-A) (NMMHC-A) [R.norvegicus], ESTs, Weakly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], RIKEN cDNA 2400004E04 gene, RIKEN cDNA 5730504C04 gene, TGFB1-induced anti-apoptotic factor 1, myosin heavy chain IX, myosin, heavy polypeptide 9, non-muscle, protein tyrosine phosphatase, receptor-type, F interacting protein, binding protein 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3270	1970	NM_013194	t, mm		ESTs, Highly similar to MYH9_RAT Myosin heavy chain, nonmuscle type A (Cellular myosin heavy chain, type A) (Nonmuscle myosin heavy chain-A) (NMMHC-A) [R.norvegicus], ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to MYH9_RAT Myosin heavy chain, nonmuscle type A (Cellular myosin heavy chain, type A) (Nonmuscle myosin heavy chain-A) (NMMHC-A) [R.norvegicus], ESTs, Weakly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], RIKEN cDNA 2400004E04 gene, RIKEN cDNA 5730504C04 gene, TGFB1-induced anti-apoptotic factor 1, myosin heavy chain IX, myosin, heavy polypeptide 9, non-muscle, protein tyrosine phosphatase, receptor-type, F interacting protein, binding protein 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4254	5655	NM_138885	f, q, ff		ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to JC5837 364K Golgi complex-associated protein - rat [R.norvegicus], ESTs, Weakly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to T42722 male-enhanced antigen-2 mouse [M.musculus], RB1-inducible coiled-coil 1, RIKEN cDNA 2400004E04 gene, RIKEN cDNA 4930428L02 gene, RIKEN cDNA 5730504C04 gene, coiled-coil protein BICD2, expressed sequence AL022610, expressed sequence AU042952, golgi autoantigen, golgin subfamily b, macrogolgin (with transmembrane signal), 1, hypothetical protein FLJ13031, myosin heavy chain IX, similar to rat myomegalin
4254	5656	NM_138885	d, q		ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to JC5837 364K Golgi complex-associated protein - rat [R.norvegicus], ESTs, Weakly similar to MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to T42722 male-enhanced antigen-2 mouse [M.musculus], RB1-inducible coiled-coil 1, RIKEN cDNA 2400004E04 gene, RIKEN cDNA 4930428L02 gene, RIKEN cDNA 5730504C04 gene, coiled-coil protein BICD2, expressed sequence AL022610, expressed sequence AU042952, golgi autoantigen, golgin subfamily b, macrogolgin (with transmembrane signal), 1, hypothetical protein FLJ13031, myosin heavy chain IX, similar to rat myomegalin

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3823	18005	NM_031588	j		ESTs, Highly similar to NRG2_MOUSE PRO NEUREGULIN-2 PRECURSOR (PRO-NRG2) [CONTAINS: NEUREGULIN-2 (NRG2) (DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], ESTs, Weakly similar to NRG2_MOUSE PRO-NEUREGULIN-2 PRECURSOR (PRO-NRG2) [CONTAINS: NEUREGULIN-2 (NRG2) (DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], neuregulin 1
3823	18011	NM_031588	dd		ESTs, Highly similar to NRG2_MOUSE PRO NEUREGULIN-2 PRECURSOR (PRO-NRG2) [CONTAINS: NEUREGULIN-2 (NRG2) (DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], ESTs, Weakly similar to NRG2_MOUSE PRO-NEUREGULIN-2 PRECURSOR (PRO-NRG2) [CONTAINS: NEUREGULIN-2 (NRG2) (DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], neuregulin 1
3939	19148	NM_033096	oo		ESTs, Highly similar to P2CB_HUMAN PROTEIN PHOSPHATASE 2C BETA ISOFORM [H.sapiens], ESTs, Weakly similar to P2CB_HUMAN PROTEIN PHOSPHATASE 2C BETA ISOFORM [H.sapiens], Homo sapiens cDNA FLJ30553 fis, clone BRAWH2003689, highly similar to Mus musculus clone mouse1-9 putative protein phosphatase type 2C mRNA, protein phosphatase 1B (formerly 2C), magnesium-dependent, beta isoform, protein phosphatase 1B, magnesium dependent, beta isoform
4099	18025	NM_053989	vv		ESTs, Highly similar to PAB1_HUMAN POLYADENYLATE-BINDING PROTEIN 1 [H.sapiens], RIKEN cDNA 2810411E22 gene, RIKEN cDNA 4432411E13 gene, RIKEN cDNA 4930431E10 gene
3746	12639	NM_031099	I, General, ee, II		ESTs, Highly similar to PC4210 ribosomal protein L5 [H.sapiens], ribosomal protein L5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3568	1141	NM_022401	f, n, r, z		ESTs, Highly similar to PLE1_MOUSE PLECTIN 1 (PLTN) (PCN) [M.musculus], ESTs, Weakly similar to plectin [Rattus norvegicus] [R.norvegicus], KIAA1009 protein, Mus musculus, clone IMAGE:4188338, mRNA, partial cds, desmoplakin (DPI, DPII), expressed sequence AA407888, plectin 1, intermediate filament binding protein, 500kD
949	22017	AA944209	d		ESTs, Highly similar to PROTO-ONCOGENE SERINE/THREONINE-PROTEIN KINASE PIM-1 [M.musculus], PAS domain containing serine/threonine kinase
4417	18541	X14671	h, gg, hh		ESTs, Highly similar to RL26_HUMAN 60S RIBOSOMAL PROTEIN L26 [H.sapiens], ESTs, Highly similar to S33713 ribosomal protein L26, cytosolic [H.sapiens], ESTs, Moderately similar to RL26_HUMAN 60S RIBOSOMAL PROTEIN L26 [H.sapiens], ribosomal protein L26, ribosomal protein L26-like 1
3280	815	NM_013224	h, l, ll, oo		ESTs, Highly similar to RS26_HUMAN 40S RIBOSOMAL PROTEIN S26 [H.sapiens], Homo sapiens, clone IMAGE:4100953, mRNA, polymerase (RNA) II (DNA directed) polypeptide D, ribosomal protein S26
1647	10533	AI058430	qq		ESTs, Highly similar to S03700 nonhistone chromosomal protein HMG-17 [H.sapiens], ESTs, Weakly similar to HG17_RAT NONHISTONE CHROMOSOMAL PROTEIN HMG-17 [R.norvegicus], high mobility group nucleosomal binding domain 2, high mobility group nucleosomal binding domain 3, high-mobility group (nonhistone chromosomal) protein 14, high-mobility group (nonhistone chromosomal) protein 17, thyroid hormone receptor interactor 7

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
90	15011	AA799893	l, s, z, kk, nn		ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], Mus musculus, Similar to TAR DNA binding protein, clone MGC:19284 IMAGE:4016437, mRNA, complete cds, RIKEN cDNA 2610510D13 gene, RIKEN cDNA 4930547K05 gene, heterogeneous nuclear ribonucleoprotein A1, heterogeneous nuclear ribonucleoprotein A3
1742	11596	AI071194	pp		ESTs, Highly similar to S16506 hypothetical protein [H.sapiens], ESTs, Weakly similar to S16506 hypothetical protein [H.sapiens], Homo sapiens, similar to putative, clone MGC:22793 IMAGE:4773899, mRNA, complete cds, hypothetical protein FLJ12748
2508	11527	AI229307	rr, uu		ESTs, Highly similar to S27958 transcription factor BTF2 62K chain [H.sapiens], general transcription factor IIH, polypeptide 1 (62kD subunit)
2921	3815	H31907	u		ESTs, Highly similar to S57449 fusca protein homolog - rat [R.norvegicus], ESTs, Weakly similar to S57449 fusca protein homolog - rat [R.norvegicus], G protein pathway suppressor 1, Mus musculus, Similar to G protein pathway suppressor 1, clone MGC:7191 IMAGE:3481979, mRNA, complete cds, RIKEN cDNA 2400006A19 gene
1811	15308	AI072896	nn		ESTs, Highly similar to S60712 band-6-protein [H.sapiens], RIKEN cDNA 5031422I09 gene, catenin delta 2
3300	18139	NM_017033	General		ESTs, Highly similar to S62628 phosphoglucomutase-related protein - mouse [M.musculus], ESTs, Moderately similar to S62628 phosphoglucomutase-related protein - mouse [M.musculus], Phosphoglucomutase 1, RIKEN cDNA 2610020G18 gene, phosphoglucomutase 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4315	10544	NM_152935	m		ESTs, Highly similar to S68215 Mas 20 protein [H.sapiens], Homo sapiens cDNA FLJ30361 fis, clone BRACE2007764, RIKEN cDNA 1810060K07 gene, RIKEN cDNA 4930553D19 gene, translocase of outer mitochondrial membrane 20 (yeast) homolog
4315	10545	NM_152935	cc		ESTs, Highly similar to S68215 Mas 20 protein [H.sapiens], Homo sapiens cDNA FLJ30361 fis, clone BRACE2007764, RIKEN cDNA 1810060K07 gene, RIKEN cDNA 4930553D19 gene, translocase of outer mitochondrial membrane 20 (yeast) homolog
56	20982	AA799657	x, qq		ESTs, Highly similar to S68418 protein phosphatase 1M chain M110 isoform - rat [R.norvegicus], ESTs, Weakly similar to S68418 protein phosphatase 1M chain M110 isoform - rat (fragment) [R.norvegicus], expressed sequence A1449786, expressed sequence A1746547, leukocyte receptor cluster (LRC) member 3, myosin phosphatase, target subunit 1, protein phosphatase 1, regulatory (inhibitor) subunit 12A
140	12072	AA800680	g		ESTs, Highly similar to S68418 protein phosphatase 1M chain M110 isoform - rat [R.norvegicus], ESTs, Weakly similar to S68418 protein phosphatase 1M chain M110 isoform - rat (fragment) [R.norvegicus], leukocyte receptor cluster (LRC) member 3, myosin phosphatase, target subunit 1, protein phosphatase 1, regulatory (inhibitor) subunit 12A



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2395	23043	AI178968	nn		ESTs, Highly similar to S70642 ubiquitin ligase Nedd4 - rat (fragment) [R.norvegicus], ESTs, Moderately similar to S70642 ubiquitin ligase Nedd4 - rat (fragment) [R.norvegicus], Mus musculus, clone MGC:12070 IMAGE:3708271, mRNA, complete cds, RIKEN cDNA 1700056O17 gene, RIKEN cDNA 5830462N02 gene, expressed sequence AW212605, neural precursor cell expressed, developmentally down-regulated 4, neural precursor cell expressed, developmentally down-regulated gene 4a, thyroid hormone receptor interactor 12, ubiquitin protein ligase E3A
1365	23540	AI010110	xx		ESTs, Highly similar to SH31_RAT SH3-containing GRB2-like protein 1 (SH3 domain protein 2B) (SH3p8) [R.norvegicus], ESTs, Moderately similar to SH31_HUMAN SH3-CONTAINING GRB2-LIKE PROTEIN 1 (SH3 DOMAIN PROTEIN 2B) (EXTRA ELEVEN-NINETEEN LEUKEMIA FUSION GENE) (EEN) (EEN FUSION PARTNER OF MLL) [H.sapiens], ESTs, Moderately similar to SH31_RAT SH3-containing GRB2-like protein 1 (SH3 domain protein 2B) (SH3p8) [R.norvegicus], SH3 domain protein 2A, SH3 domain protein 2B, SH3-domain GRB2-like 1, SH3-domain GRB2-like 2, SH3-domain GRB2-like endophilin B1, SH3-domain GRB2-like endophilin B2
2282	13678	AI176490	u		ESTs, Highly similar to T00065 hypothetical protein KIAA0442 [H.sapiens], Homo sapiens cDNA FLJ12396 fis, clone MAMMA1002758, KIAA1545 protein, hypothetical protein FLJ11618
202	17771	AA818224	I		ESTs, Highly similar to T08726 tubulin beta chain [H.sapiens], ESTs, Highly similar to TBB1_RAT TUBULIN BETA CHAIN (T BETA-15) [R.norvegicus], ESTs, Highly similar to TBB2_HUMAN TUBULIN BETA-2 CHAIN [H.sapiens], RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930447K03 gene, RIKEN cDNA 4930542G03 gene, expressed sequence AI451582, expressed sequence C79445, tubulin beta-5, tubulin beta 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
45	18361	AA799591	j, tt		ESTs, Highly similar to T08726 tubulin beta chain [H.sapiens], ESTs, Highly similar to TBB1_RAT TUBULIN BETA CHAIN (T BETA-15) [R.norvegicus], ESTs, Highly similar to TBB2_HUMAN TUBULIN BETA-2 CHAIN [H.sapiens], RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930447K03 gene, RIKEN cDNA 4930542G03 gene, Rat mRNA for beta-tubulin T beta15, expressed sequence AI451582, expressed sequence C79445, tubulin beta-5, tubulin, beta 3, tubulin, beta, 2
4303	22975	NM_145778	jj		ESTs, Highly similar to T08726 tubulin beta chain [H.sapiens], ESTs, Highly similar to TBB1_RAT TUBULIN BETA CHAIN (T BETA-15) [R.norvegicus], RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930447K03 gene, RIKEN cDNA 4930542G03 gene, Rat mRNA for beta-tubulin T beta15, expressed sequence AI451582, expressed sequence C79445, tubulin beta 3, tubulin gamma 1
4242	2100	NM_138829	ll		ESTs, Highly similar to T17229 hypothetical protein DKFZp434D156.1 [H.sapiens], ESTs, Weakly similar to FMN2_MOUSE Formin 2 [M.musculus], expressed sequence AI854843, expressed sequence AW742646, formin 2, golgi peripheral membrane protein p65, golgi phosphoprotein 5, likely ortholog of rat golgi stacking protein homolog GRASP55
2357	16739	AI178151	cc		ESTs, Highly similar to T46366 hypothetical protein DKFZp434C0118.1 [H.sapiens], F-box only protein 9, Homo sapiens cDNA FLJ32209 fis, clone PLACE6003372
287	19412	AA849222	jj		ESTs, Highly similar to T46904 hypothetical protein DKFZp761D081.1 [H.sapiens], Homo sapiens cDNA: FLJ21587 fis, clone COL06946, likely ortholog of mouse Arkadia
728	19411	AA893667	r		ESTs, Highly similar to T46904 hypothetical protein DKFZp761D081.1 [H.sapiens], Homo sapiens cDNA: FLJ21587 fis, clone COL06946, likely ortholog of mouse Arkadia

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4048	3828	NM_053785	b, ss		ESTs, Highly similar to T4S4_HUMAN TRANSMEMBRANE 4 SUPERFAMILY, MEMBER 4 [H.sapiens], Mus musculus, clone MGC:19127 IMAGE:4211816, mRNA, complete cds, transmembrane 4 superfamily member 1, transmembrane 4 superfamily member 4, transmembrane 4 superfamily member 5
797	16754	AA900474	d		ESTs, Highly similar to T50619 hypothetical protein DKFZp762M136.1 [H.sapiens], hypothetical protein DKFZp762M136
860	2462	AA924913	d		ESTs, Highly similar to T50619 hypothetical protein DKFZp762M136.1 [H.sapiens], hypothetical protein DKFZp762M136
689	3865	AA893065	k, p		ESTs, Highly similar to THDE_RAT Thyrotropin-releasing hormone degrading ectoenzyme (TRH-degrading ectoenzyme) (TRH-DE) (TRH-specific aminopeptidase) (Thyroliberinase) (Pyroglutamyl-peptidase II) (PAP-II) [R.norvegicus], ESTs, Weakly similar to AMPE MOUSE GLUTAMYL AMINOPEPTIDASE [M.musculus], ESTs, Weakly similar to PUROMYCIN-SENSITIVE AMINOPEPTIDASE [M.musculus], aminopeptidase puromycin sensitive, puromycin-sensitive aminopeptidase
213	14123	AA818554	g		ESTs, Highly similar to TPMN_HUMAN TROPOMYOSIN, CYTOSKELETAL TYPE [H.sapiens], ESTs, Moderately similar to TROPOMYOSIN 5, CYTOSKELETAL TYPE [M.musculus]
4208	16456	NM_134346	w		ESTs, Highly similar to TVHUR1 transforming protein rap1b [H.sapiens], ESTs, Weakly similar to GTP-binding protein ROC2 [M.musculus], Mus musculus, Similar to RAS-like, estrogen-regulated, growth-inhibitor, clone MGC:31467 IMAGE:4483442, mRNA, complete cds, RAP1B, member of RAS oncogene family, RAP2B, member of RAS oncogene family, RAS-like, estrogen-regulated, growth-inhibitor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4208	16457	NM_134346	u		ESTs, Highly similar to TVHUR1 transforming protein rap1b [H.sapiens], ESTs, Weakly similar to GTP-binding protein ROC2 [M.musculus], Mus musculus, Similar to RAS-like, estrogen-regulated, growth-inhibitor, clone MGC:31467 IMAGE:4483442, mRNA, complete cds, RAP1B, member of RAS oncogene family, RAP2B, member of RAS oncogene family, RAS-like, estrogen-regulated, growth-inhibitor
3764	15052	NM_031136	s		ESTs, Highly similar to TYB4 MOUSE THYMOSIN BETA-4 [M.musculus], ESTs, Moderately similar to PC4259 ferritin associated protein [H.sapiens], Homo sapiens cDNA FLJ31414 fis, clone NT2NE2000260, weakly similar to THYMOSIN BETA-4, thymosin, beta 4, X chromosome
338	19189	AA851237	dd		ESTs, Highly similar to UBPI_HUMAN UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 18 [H.sapiens], ubiquitin specific protease 18
4234	13563	NM_138530	m, ff		ESTs, Highly similar to ULA4_HUMAN MAWD binding protein (Unknown protein 32 from 2D-page of liver tissue) [H.sapiens], MAWD binding protein
1789	8856	AI072402	b, h, u		ESTs, Highly similar to Z208_HUMAN ZINC FINGER PROTEIN 208 [H.sapiens], ESTs, Moderately similar to Z208_HUMAN ZINC FINGER PROTEIN 208 [H.sapiens], ESTs, Moderately similar to zinc finger protein 30 [M.musculus], ESTs, Weakly similar to zinc finger protein 30 [M.musculus], Homo sapiens cDNA FLJ20562 fis, clone KAT11992, KRAB zinc finger protein KR18, zinc finger protein 208
4047	14015	NM_053770	n, w		ESTs, Moderately similar to Arg/Abl-interacting protein ArgBP2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to Arg/Abl-interacting protein ArgBP2 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 2010203O03 gene, SH3-domain protein 5 (ponsin), sorbin and SH3 domain containing 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4047	14016	NM_053770	xx		ESTs, Moderately similar to Arg/Abl-interacting protein ArgBP2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to Arg/Abl-interacting protein ArgBP2 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 2010203003 gene, SH3-domain protein 5 (ponsin), sorbin and SH3 domain containing 1
3726	17726	NM_031043	jj		ESTs, Moderately similar to glycogenin 2 [Homo sapiens] [H.sapiens], glycogenin, glycogenin 1, glycogenin 2
3726	17727	NM_031043	pp, uu		ESTs, Moderately similar to glycogenin 2 [Homo sapiens] [H.sapiens], glycogenin, glycogenin 1, glycogenin 2
3726	25328	NM_031043	e, bb		ESTs, Moderately similar to glycogenin 2 [Homo sapiens] [H.sapiens], glycogenin, glycogenin 1, glycogenin 2
3947	1410	NM_052798	o		ESTs, Moderately similar to hypothetical protein MGC2663 [Homo sapiens] [H.sapiens], ESTs, Moderately similar to S47073 finger protein HZF2, Krueppel-related [H.sapiens], ESTs, Weakly similar to TC17 MOUSE TRANSCRIPTION FACTOR 17 [M.musculus], ESTs, Weakly similar to TC17_RAT Zinc finger protein 354A (Transcription factor 17) (Renal transcription factor Kid-1) (Kidney, ischemia, and developmentally regulated protein-1) [R.norvegicus], expressed sequence A1875089, hypermethylated in cancer 2, zinc finger protein 354A, zinc finger protein 254B
613	4486	AA892298	w		ESTs, Moderately similar to peptidylprolyl isomerase-like protein 3, isoform PPIL3a; cyclophilin-like protein 3; peptidylprolyl cis-trans isomerase-like protein 3; PPIase-like protein 3 [Homo sapiens] [H.sapiens], expressed sequence AU019516, matrin cyclophilin (matrin-cyp), natural killer-tumor recognition sequence, peptidyl-prolyl isomerase G (cyclophilin G), peptidylprolyl isomerase D (cyclophilin D)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
658	4487	AA892680	e, p		ESTs, Moderately similar to peptidylprolyl isomerase-like protein 3, isoform PPIL3a; cyclophilin-like protein 3; peptidylprolyl cis-trans isomerase-like protein 3; PPIase-like protein 3 [Homo sapiens] [H.sapiens], expressed sequence AU019516, matrin cyclophilin (matrin-cyp), natural killer-tumor recognition sequence, peptidyl-prolyl isomerase G (cyclophilin G), peptidylprolyl isomerase D (cyclophilin D)
1987	9575	AI112250	General, kk, nn		ESTs, Moderately similar to protein tyrosine phosphatase type IVA, member 2, isoform 1; protein tyrosine phosphatase IVA; protein tyrosine phosphatase IVA2; phosphatase of regenerating liver 2 [Homo sapiens] [H.sapiens], protein tyrosine phosphatase 4a2, protein tyrosine phosphatase type IVA, member 2
3980	14670	NM_053439	ee		ESTs, Moderately similar to RAN, member RAS oncogene family [Rattus norvegicus] [R.norvegicus], F-box and WD-40 domain protein 7, archipelago homolog (Drosophila), RAN, member RAS oncogene family, RAS-like, family 2, locus 9, RIKEN cDNA 1700009N14 gene
3925	18898	NM_031985	pp		ESTs, Moderately similar to ribosomal protein S6 kinase, 70kD; polypeptide 2; S6 kinase 2 [Mus musculus] [M.musculus], RIKEN cDNA 2610318I15 gene, ribosomal protein S6 kinase, 70kD, polypeptide 1, ribosomal protein S6 kinase, 70kD, polypeptide 2
1316	16701	AI008838	ff		ESTs, Moderately similar to RIKEN cDNA 1300002A08 [Mus musculus] [M.musculus], RIKEN cDNA 1300002A08 gene, methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase, protease, serine, 15
1393	16702	AI011436	ss		ESTs, Moderately similar to RIKEN cDNA 1300002A08 [Mus musculus] [M.musculus], RIKEN cDNA 1300002A08 gene, methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase, protease, serine, 15

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2411	16703	AI179300	ff		ESTs, Moderately similar to RIKEN cDNA 1300002A08 [Mus musculus] [M.musculus], RIKEN cDNA 1300002A08 gene, methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase, protease, serine, 15
355	6687	AA851739	General		ESTs, Moderately similar to tousled-like kinase 2; serine/threonine kinase; tousled-like kinase [Homo sapiens] [H.sapiens], tousled-like kinase 2 (Arabidopsis)
3628	194	NM_022861	s		ESTs, Moderately similar to UNC-13 homolog (C. elegans) 1 [Mus musculus] [M.musculus], unc-13-like (C. elegans), unc13 homolog (C. elegans) 1
743	7637	AA894089	k, x		ESTs, Moderately similar to 2118320A neurodegeneration-associated protein 1 [Rattus norvegicus] [R.norvegicus], KIAA0438 gene product, Mus musculus, clone IMAGE:3499845, mRNA, partial cds, g1-related zinc finger protein, goliath protein, hypothetical protein FLJ20552, hypothetical protein LOC51255, praja 1, praja1, RING-H2 motif containing, similar to RIKEN cDNA 1300002C13, zinc finger protein 364
4256	7636	NM_138896	s		ESTs, Moderately similar to 2118320A neurodegeneration-associated protein 1 [Rattus norvegicus] [R.norvegicus], KIAA0438 gene product, Mus musculus, clone IMAGE:3499845, mRNA, partial cds, g1-related zinc finger protein, goliath protein, hypothetical protein FLJ20552, hypothetical protein LOC51255, praja 1, praja1, RING-H2 motif containing, similar to RIKEN cDNA 1300002C13, zinc finger protein 364
2160	17783	AI171206	vv		ESTs, Moderately similar to 2118320A neurodegeneration-associated protein 1 [Rattus norvegicus] [R.norvegicus], KIAA0438 gene product, Mus musculus, clone IMAGE:3499845, mRNA, partial cds, hypothetical protein FLJ20552, hypothetical protein LOC51255, praja 1, praja1, RING-H2 motif containing, rotein carrying the RING-H2 sequence motif, similar to RIKEN cDNA 1300002C13, zinc finger protein 364

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2898	1041	D78610	x		ESTs, Moderately similar to A36065 protein-tyrosine-phosphatase [H.sapiens], Protein tyrosine phosphatase, receptor type, A, protein tyrosine phosphatase, receptor type, A, protein tyrosine phosphatase, receptor type, E
3348	20702	NM_017166	General, dd, oo, pp		ESTs, Moderately similar to A40936 stathmin [H.sapiens], expressed sequence A131641, leukemia-associated gene, stathmin 1/oncoprotein 18
1289	12932	AF102552	x		ESTs, Moderately similar to A55575 ankyrin 3, long splice form [H.sapiens], ESTs, Weakly similar to A55575 ankyrin 3, long splice form [H.sapiens], Homo sapiens cDNA FLJ10428 fis, clone NT2RP1000376, highly similar to Homo sapiens mRNA; cDNA DKFZp434A102, RIKEN cDNA 2310026G15 gene, RIKEN cDNA 2410197A17 gene, ankyrin 3, node of Ranvier (ankyrin G), hypothetical protein FLJ20189, hypothetical protein FLJ22551, phospholipase A2, group VI, phospholipase A2, group VI (cytosolic, calcium-independent)
4178	17634	NM_133418	q, z, General, uu		ESTs, Moderately similar to BMCP_HUMAN BRAIN MITOCHONDRIAL CARRIER PROTEIN-1 [H.sapiens], ESTs, Weakly similar to M2OM_HUMAN MITOCHONDRIAL 2-OXOGLUTARATE/MALATE CARRIER PROTEIN [H.sapiens], solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 10, solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10, solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4178	17635	NM_133418	l, x		ESTs, Moderately similar to BMCP_HUMAN BRAIN MITOCHONDRIAL CARRIER PROTEIN-1 [H.sapiens], ESTs, Weakly similar to M2OM_HUMAN MITOCHONDRIAL 2- OXOGLUTARATE/MALATE CARRIER PROTEIN [H.sapiens], solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 10, solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10, solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11
4178	17636	NM_133418	pp		ESTs, Moderately similar to BMCP_HUMAN BRAIN MITOCHONDRIAL CARRIER PROTEIN-1 [H.sapiens], ESTs, Weakly similar to M2OM_HUMAN MITOCHONDRIAL 2- OXOGLUTARATE/MALATE CARRIER PROTEIN [H.sapiens], solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 10, solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10, solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11
671	7148	AA892842	gg, hh		ESTs, Moderately similar to CAZ3_MOUSE F-ACTIN CAPPING PROTEIN ALPHA-3 SUBUNIT (CAPZ ALPHA-3) (GERM CELL- SPECIFIC PROTEIN 3) [M.musculus], capping protein (actin filament) muscle Z- line, alpha 2, capping protein alpha 2, capping protein alpha 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4077	1660	NM_053891	bb, ll, ww		ESTs, Moderately similar to CD5R_MOUSE CYCLIN-DEPENDENT KINASE 5 ACTIVATOR 1 PRECURSOR (CDK5 ACTIVATOR 1) (CYCLIN-DEPENDENT KINASE 5 REGULATORY SUBUNIT 1) (TAU PROTEIN KINASE II 23 KD SUBUNIT) (TPKII REGULATORY SUBUNIT) (P23) (P25) (P35) [R.norvegicus], ESTs, Weakly similar to cyclin-dependent kinase 5, regulatory subunit 1 (p35) [Rattus norvegicus] [R.norvegicus], cyclin-dependent kinase 5, regulatory subunit (p35), cyclin-dependent kinase 5, regulatory subunit 1 (p35), cyclin- dependent kinase 5, regulatory subunit 2 (p20)
2786	18854	AI237636	I		ESTs, Moderately similar to CNE6_MOUSE COPINE VI (NEURONAL-COPINE) (N- COPINE) [M.musculus], ESTs, Weakly similar to CNE3_HUMAN COPINE III [H.sapiens], RIKEN cDNA 3632411M23 gene, copine 6, copine II, copine III, expressed sequence AU067659, expressed sequence AW047065
2271	13339	AI176308	r		ESTs, Moderately similar to CO1B_RAT Coronin 1B (Coronin 2) [R.norvegicus], Mus musculus, Similar to coronin, actin binding protein, 2A, clone IMAGE:4984475, mRNA, partial cds, coronin, actin binding protein 1B, coronin, actin binding protein 1C, hypothetical protein DKFZp762I166
2596	19274	AI232135	ii		ESTs, Moderately similar to COG2_MOUSE Coatomer gamma-2 subunit (Gamma-2 coat protein) (Gamma-2 COP) [M.musculus], Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone:4632427M03:coatomer protein complex, subunit gamma 1, full insert sequence, coatomer protein complex, subunit gamma 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4376	18038	U39943	x		ESTs, Moderately similar to CPJ3_RAT CYTOCHROME P450 2J3 (CYP11J3) [R.norvegicus], ESTs, Weakly similar to CPJ6 MOUSE CYTOCHROME P450 2J6 [M.musculus], Homo sapiens cDNA FLJ14042 fis, clone HEMBA1006038, weakly similar to LAMININ ALPHA-5 CHAIN, Mus musculus, Similar to CYP2J4, clone MGC:25927 IMAGE:4235131, mRNA, complete cds, RIKEN cDNA 8430436A10 gene, cytochrome P450, 2j6, cytochrome P450, 2j9, expressed sequence AI314783
4480	20695	Y09000	gg, hh		ESTs, Moderately similar to DEND RAT DENDRIN [R.norvegicus], KIAA0749 protein
3678	713	NM_024391	pp		ESTs, Moderately similar to DHB2 MOUSE ESTRADIOL 17 BETA-DEHYDROGENASE 2 [M.musculus], ESTs, Weakly similar to 17-beta hydroxysteroid dehydrogenase type 2 [Rattus norvegicus] [R.norvegicus], Mus musculus cis-retinol/androgen dehydrogenase type 3 mRNA, complete cds, Mus musculus, Similar to retinol dehydrogenase type 6, clone MGC:25965 IMAGE:4239862, mRNA, complete cds, cell line MC/9.IL4 derived transcript 1, expressed sequence AI194836, expressed sequence AI255511, hydroxysteroid (17-beta) dehydrogenase 2
4398	1153	U89280	h, n		ESTs, Moderately similar to DHB2 MOUSE ESTRADIOL 17 BETA-DEHYDROGENASE 2 [M.musculus], ESTs, Weakly similar to A55884 retinol dehydrogenase (EC 1.1.1.105) - rat [R.norvegicus], Mus musculus cis-retinol/androgen dehydrogenase type 3 mRNA, complete cds, Mus musculus, Similar to retinol dehydrogenase type 6, clone MGC:25965 IMAGE:4239862, mRNA, complete cds, expressed sequence AI194836, expressed sequence AI255511, retinol dehydrogenase 5 (11-cis and 9-cis), retinol dehydrogenase 7, retinol dehydrogenase type 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4277	15023	NM_139113	n, z, General, kk, pp		ESTs, Moderately similar to EAR2_RAT Orphan nuclear receptor EAR-2 (V-erbA related protein EAR-2) (Ovalbumin upstream promoter gamma nuclear receptor rCOUPg) [R.norvegicus], nuclear receptor subfamily 2, group F, member 6
4428	16716	X53054	c		ESTs, Moderately similar to HB2D_RAT RT1 CLASS II HISTOCOMPATIBILITY ANTIGEN, D-1 BETA CHAIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to HB2D_RAT RT1 CLASS II HISTOCOMPATIBILITY ANTIGEN, D-1 BETA CHAIN PRECURSOR [R.norvegicus], Rattus norvegicus Class II MHC RT1.D(a) beta chain precursor (RT1.D(a)) mRNA, complete cds, Rattus norvegicus Class II MHC RT1.D(n) beta chain precursor (RT1.D(n)) mRNA, complete cds, major histocompatibility complex, class II, DR beta 5
3262	1451	NM_013168	tt		ESTs, Moderately similar to HEM3 MOUSE PORPHOBILINOGEN DEAMINASE [M.musculus], hydroxymethylbilane synthase
3262	1452	NM_013168	ii		ESTs, Moderately similar to HEM3 MOUSE PORPHOBILINOGEN DEAMINASE [M.musculus], hydroxymethylbilane synthase
1773	17673	AI071895	ii		ESTs, Moderately similar to I38937 DNA/RNA-binding protein [H.sapiens]
1809	9421	AI072885	pp		ESTs, Moderately similar to INPP MOUSE INOSITOL POLYPHOSPHATE 1- PHOSPHATASE [M.musculus], inositol polyphosphate-1-phosphatase
670	17581	AA892835	f		ESTs, Moderately similar to JC1235 transcription factor BTF3a [H.sapiens], Homo sapiens cDNA FLJ14844 fis, clone PLACE1000133, highly similar to TRANSCRIPTION FACTOR BTF3, Mus musculus, basic transcription factor 3, clone MGC:6799 IMAGE:2648048, mRNA, complete cds, RIKEN cDNA 1700054E11 gene, RIKEN cDNA 5730434I03 gene, basic transcription factor 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1030	22753	AA946300	I, General		ESTs, Moderately similar to JC4702 cytochrome P450 3A9 - rat [R.norvegicus], ESTs, Weakly similar to cytochrome P450 3A13 [M.musculus], Homo sapiens cDNA FLJ31317 fis, clone LIVER1000421, moderately similar to CYTOCHROME P450 3A5 (EC 1.14.14.1), cytochrome P450, steroid inducible 3a13, cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 3, cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 4, cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 5
4340	24351	S74257	ii, kk, ll, ww		ESTs, Moderately similar to JC5604 ABC-transporting peroxisomal membrane protein 69 [H.sapiens]
106	21064	AA800175	m, ww		ESTs, Moderately similar to JC7136 peptidylprolyl isomerase (EC 5.2.1.8) - mouse [M.musculus], protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1, protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)
618	18208	AA892318	gg, hh		ESTs, Moderately similar to JC7220 nuclear protein SR-25 [H.sapiens], HSVI binding protein, SRp25 nuclear protein, expressed sequence AA408210, expressed sequence AA408365
618	18209	AA892318	r, bb		ESTs, Moderately similar to JC7220 nuclear protein SR-25 [H.sapiens], HSVI binding protein, SRp25 nuclear protein, expressed sequence AA408210, expressed sequence AA408365
3133	8829	NM_012749	q, xx		ESTs, Moderately similar to NUCLEOLIN [M.musculus], ESTs, Weakly similar to A35804 nucleolin [H.sapiens], ESTs, Weakly similar to NUCL_HUMAN NUCLEOLIN [H.sapiens], ESTs, Weakly similar to NUCL_RAT Nucleolin (Protein C23) [R.norvegicus], RIKEN cDNA 1200009A02 gene, eukaryotic translation initiation factor 3, subunit 4 (delta, 44 kDa), nucleolin, p100

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3133	8831	NM_012749	g		ESTs, Moderately similar to NUCLEOLIN [M.musculus], ESTs, Weakly similar to A35804 nucleolin [H.sapiens], ESTs, Weakly similar to NUCL_HUMAN NUCLEOLIN [H.sapiens], ESTs, Weakly similar to NUCL_RAT Nucleolin (Protein C23) [R.norvegicus], RIKEN cDNA 1200009A02 gene, eukaryotic translation initiation factor 3, subunit 4 (delta, 44 kDa), nucleolin, ninnen
4464	23302	X78949	ff, xx		ESTs, Moderately similar to P4H1_RAT Prolyl 4-hydroxylase alpha-1 subunit precursor (4-PH alpha-1) (Procollagen-proline,2-oxoglutarate-4-dioxygenase alpha-1 subunit) [R.norvegicus], Homo sapiens, clone IMAGE:3162218, mRNA, partial cds, RIKEN cDNA 4933406E20 gene, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II
2175	15684	AI171535	n, General		ESTs, Moderately similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], ESTs, Weakly similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], RIKEN cDNA 4932702K14 gene, poly A binding protein, cytoplasmic 1, poly(A) binding protein, cytoplasmic 4 (inducible form)
2676	15685	AI233870	m		ESTs, Moderately similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], ESTs, Weakly similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], RIKEN cDNA 4932702K14 gene, poly A binding protein, cytoplasmic 1, poly(A) binding protein, cytoplasmic 4 (inducible form)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
248	5169	AA819488	I, General		ESTs, Moderately similar to PCD6_HUMAN PROGRAMED CELL DEATH PROTEIN 6 (PROBABLE CALCIUM-BINDING PROTEIN ALG-2) [H.sapiens], ESTs, Weakly similar to CAN1_MOUSE CALPAIN 1, LARGE [CATALYTIC] SUBUNIT (CALCIUM-ACTIVATED NEUTRAL PROTEINASE) (CANP) (MU-TYPE) [M.musculus], Homo sapiens, clone IMAGE:4823101, mRNA, partial cds, Homo sapiens, clone MGC:20576 IMAGE:4300206, mRNA, complete cds, PEF protein with a long N-terminal hydrophobic domain (peffin), calpain 13, calpain 6, programmed cell death 6
2747	19035	A1236576	pp, rr		ESTs, Moderately similar to RAS-RELATED PROTEIN RAB-1A [M.musculus], ESTs, Weakly similar to A49647 GTP-binding protein Rab13 [H.sapiens], ESTs, Weakly similar to RB30_HUMAN RAS-RELATED PROTEIN RAB-3 [H.sapiens], RAB, member of RAS oncogene family-like 4, RAB1B, member RAS oncogene family, RAB30, member RAS oncogene family
1434	6489	A1012636	d		ESTs, Moderately similar to RBMA_RAT RNA-BINDING PROTEIN 10 (RNA BINDING MOTIF PROTEIN 10) (S1-1 PROTEIN) [R.norvegicus], Homo sapiens cDNA FLJ10100 fis, clone HEMBA1002469, moderately similar to DXS8237E PROTEIN, Mus musculus, Similar to RNA binding motif protein 10, clone MGC:7826 IMAGE:3500403, mRNA, complete cds, RNA binding motif protein 10, S1-1 protein from liver
2952	14968	K02815	f		ESTs, Moderately similar to S04363 class II histocompatibility antigen RT1-B alpha chain precursor - rat [R.norvegicus], histocompatibility 2, O region alpha locus, major histocompatibility complex, class II, DO alpha

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1832	6321	AI101256	ii, II		ESTs, Moderately similar to S09017 heterogeneous ribonuclear particle protein type C - rat (fragment) [R.norvegicus], Homo sapiens cDNA FLJ32918 fis, clone TEST12006588, Homo sapiens, clone IMAGE:3450973, mRNA, Mus musculus, clone MGC:36467 IMAGE:5359082, mRNA, complete cds, heterogeneous nuclear ribonucleoprotein D, high-glycine/tyrosine protein type I E5, musashi homolog 2 ( <i>Drosophila</i> )
3708	17302	NM_031008	tt		ESTs, Moderately similar to S11276 alpha-adaptin c - rat [R.norvegicus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932434L04:adaptor protein complex AP-2, alpha 2 subunit, full insert sequence, adaptor protein complex AP-2, alpha 1 subunit, adaptor protein complex AP-2, alpha 2 subunit, adaptor-related protein complex 1, gamma 1 subunit, adaptor-related protein complex 2, alpha 2 subunit
4076	1453	NM_053887	ff		ESTs, Moderately similar to S12207 hypothetical protein [M.musculus], ESTs, Weakly similar to mitogen activated protein kinase kinase kinase 1 [Rattus norvegicus] [R.norvegicus], mitogen activated protein kinase kinase kinase 1, mitogen activated protein kinase kinase kinase 2, mitogen activated protein kinase kinase kinase 3, mitogen-activated protein kinase kinase kinase 1, mitogen-activated protein kinase kinase kinase 3
4076	1454	NM_053887	gg, hh		ESTs, Moderately similar to S12207 hypothetical protein [M.musculus], ESTs, Weakly similar to mitogen activated protein kinase kinase kinase 1 [Rattus norvegicus] [R.norvegicus], mitogen activated protein kinase kinase kinase 1, mitogen activated protein kinase kinase kinase 2, mitogen activated protein kinase kinase kinase 3, mitogen-activated protein kinase kinase kinase 1, mitogen-activated protein kinase kinase kinase 3



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3583	3902	NM_022516	ss		ESTs, Moderately similar to S15552 polypyrimidine tract-binding protein 1 - rat [R.norvegicus], ESTs, Weakly similar to S15552 polypyrimidine tract-binding protein 1 - rat [R.norvegicus], Mus musculus, Similar to regulator of differentiation (in S. pombe) 1, clone MGC:11742 IMAGE:3969488, mRNA, complete cds, RIKEN cDNA 2810036L13 gene, heterogeneous nuclear ribonucleoprotein L, polypyrimidine tract binding protein 1, polypyrimidine tract binding protein 2
1472	24239	AI013781	d		ESTs, Moderately similar to S19586 N-methyl-D-aspartate receptor glutamate-binding chain - rat [R.norvegicus], ESTs, Weakly similar to S19586 N-methyl-D-aspartate receptor glutamate-binding chain - rat [R.norvegicus], RIKEN cDNA 1110025J15 gene, RIKEN cDNA 2310061B02 gene, RIKEN cDNA 2900002L20 gene, RIKEN cDNA 4930500J03 gene, Rattus norvegicus neural membrane protein 35 mRNA, complete cds, testis enhanced gene transcript (BAX inhibitor 1)
2738	14879	AI236200	ee		ESTs, Moderately similar to S38965 mannosyl-oligosaccharide 1,2-alpha-mannosidase [H.sapiens]
4173	252	NM_133323	d		ESTs, Moderately similar to S47073 finger protein HZF2, Krueppel-related [H.sapiens], ESTs, Weakly similar to zinc finger protein 93 homolog; zinc finger protein homologous to Zfp93 in mouse; zinc finger protein homologous to mouse Zfp93 [Homo sapiens] [H.sapiens], KRAB zinc finger protein (Mzf22), zinc finger protein 111, zinc finger protein 354A, zinc finger protein 354B, zinc finger protein 93 homolog (mouse)
691	24179	AA893091	nn, tt		ESTs, Moderately similar to S47073 finger protein HZF2, Krueppel-related [H.sapiens], ESTs, Weakly similar to A48830 probable transcription regulator NT fin12 - mouse [M.musculus], expressed sequence A1467481, zinc finger protein 354A, zinc finger protein 354B, zinc finger protein 40, zinc finger protein 43 (HTE6)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2023	8924	AI137283	z		ESTs, Moderately similar to S47073 finger protein HZF2, Krueppel-related [H.sapiens], ESTs, Weakly similar to TC17 MOUSE TRANSCRIPTION FACTOR 17 [M.musculus], expressed sequence AI875089, hypermethylated in cancer 2, zinc finger protein 354A, zinc finger protein 354B
2670	17210	AI233746	pp		ESTs, Moderately similar to SC14_HUMAN SEC14-LIKE PROTEIN [H.sapiens], KIAA0420 gene product, SEC14-like 1 (S. cerevisiae), SEC14-like 2 (S. cerevisiae), chromosome 20 open reading frame 45
2527	13879	AI230004	oo		ESTs, Moderately similar to T00374 hypothetical protein KIAA0648 [H.sapiens], KIAA0648 protein, androgen-induced prostate proliferative shutoff associated protein
939	21911	AA943610	s		ESTs, Moderately similar to T08795 hypothetical protein DKFZp586J1822.1 [H.sapiens]
3475	2439	NM_019277	m, ss		ESTs, Moderately similar to T09221 exocyst complex protein Sec15 - rat [R.norvegicus], Homo sapiens rsec15-like protein mRNA, partial cds, Mus musculus, Similar to SEC15 (S. cerevisiae)-like, clone MGC:30428 IMAGE:2631201, mRNA, complete cds, RIKEN cDNA 4930569O18 gene, SEC15 (S. cerevisiae)-like, SEC15 homolog (S. cerevisiae), Sec15B protein
1052	22596	AA955298	c		ESTs, Moderately similar to T46637 transcription factor 1, neural - rat [R.norvegicus], ESTs, Weakly similar to A35804 nucleolin [H.sapiens], Homo sapiens mRNA; cDNA DKFZp434E0922 (from clone DKFZp434E0922), Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810003I18:myelin transcription factor 1-like, full insert sequence, myelin transcription factor 1-like, nucleolin

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4180	10660	NM_133423	r, w		ESTs, Moderately similar to T46637 transcription factor 1, neural - rat [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp434E0922 (from clone DKFZp434E0922), Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810003I18:myelin transcription factor 1-like, full insert sequence, myelin transcription factor 1-like
4456	22424	X67788	z, gg, hh		ESTs, Moderately similar to T47177 hypothetical protein DKFZp762H157.1 [H.sapiens], villin 2, villin 2 (ezrin)
4237	16922	NM_138549	x		ESTs, Moderately similar to T50638 synaptic glycoprotein SC2 [H.sapiens], ESTs, Weakly similar to T50638 synaptic glycoprotein SC2 [H.sapiens], expressed sequence A1173355, glycoprotein, synaptic 2, steroid 5 alpha-reductase 2, steroid 5 alpha-reductase 2-like, steroid 5-alpha-reductase 2, steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2)
4237	25479	NM_138549	e, x		ESTs, Moderately similar to T50638 synaptic glycoprotein SC2 [H.sapiens], ESTs, Weakly similar to T50638 synaptic glycoprotein SC2 [H.sapiens], expressed sequence A1173355, glycoprotein, synaptic 2, steroid 5 alpha-reductase 2, steroid 5 alpha-reductase 2-like, steroid 5-alpha-reductase 2, steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2)
3108	1514	NM_012678	b, t		ESTs, Moderately similar to TROPOMYOSIN 5, CYTOSKELETAL TYPE [M.musculus], tropomyosin 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3804	14633	NM_031533	b, l, s, General, vv		ESTs, Moderately similar to UDB5 MOUSE UDP-GLUCURONOSYLTRANSFERASE 2B5 PRECURSOR, MICROSOMAL [M.musculus], Mus musculus, Similar to UDP glycosyltransferase 2 family, polypeptide B4, clone MGC:37823 IMAGE:5098890, mRNA, complete cds, RIKEN cDNA 1300012D20 gene, UDP glycosyltransferase 2 family, polypeptide B17, UDP-glucuronosyltransferase 2 family, member 5, expressed sequence AA986709
3922	17805	NM_031980	b, General, gg, hh, vv		ESTs, Moderately similar to UDB5 MOUSE UDP-GLUCURONOSYLTRANSFERASE 2B5 PRECURSOR, MICROSOMAL [M.musculus], Mus musculus, Similar to UDP glycosyltransferase 2 family, polypeptide B4, clone MGC:37823 IMAGE:5098890, mRNA, complete cds, RIKEN cDNA 1300012D20 gene, UDP glycosyltransferase 2 family, polypeptide B17, UDP-glucuronosyltransferase 2 family, member 5, expressed sequence AA986709
3922	17806	NM_031980	General, ii, ll		ESTs, Moderately similar to UDB5 MOUSE UDP-GLUCURONOSYLTRANSFERASE 2B5 PRECURSOR, MICROSOMAL [M.musculus], Mus musculus, Similar to UDP glycosyltransferase 2 family, polypeptide B4, clone MGC:37823 IMAGE:5098890, mRNA, complete cds, RIKEN cDNA 1300012D20 gene, UDP glycosyltransferase 2 family, polypeptide B17, UDP-glucuronosyltransferase 2 family, member 5, expressed sequence AA986709

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4321	14632	NM_153314	f, uu		ESTs, Moderately similar to UDB5 MOUSE UDP-GLUCURONOSYLTRANSFERASE 2B5 PRECURSOR, MICROSOMAL [M.musculus], Mus musculus, Similar to UDP glycosyltransferase 2 family, polypeptide B4, clone MGC:37823 IMAGE:5098890, mRNA, complete cds, RIKEN cDNA 1300012D20 gene, UDP glycosyltransferase 2 family, polypeptide B17, UDP-glucuronosyltransferase 2 family, member 5, expressed sequence AA986709
4321	14346	NM_153314	b, l, j, General, qq, vv, ww		ESTs, Moderately similar to UDB5 MOUSE UDP-GLUCURONOSYLTRANSFERASE 2B5 PRECURSOR, MICROSOMAL [M.musculus], Mus musculus, Similar to UDP glycosyltransferase 2 family, polypeptide B4, clone MGC:37823 IMAGE:5098890, mRNA, complete cds, RIKEN cDNA 1300012D20 gene, UDP glycosyltransferase 2 family, polypeptide B17, UDP-glucuronosyltransferase 2 family, member 5, expressed sequence AA986709
4321	14347	NM_153314	b, General, vv		ESTs, Moderately similar to UDB5 MOUSE UDP-GLUCURONOSYLTRANSFERASE 2B5 PRECURSOR, MICROSOMAL [M.musculus], Mus musculus, Similar to UDP glycosyltransferase 2 family, polypeptide B4, clone MGC:37823 IMAGE:5098890, mRNA, complete cds, RIKEN cDNA 1300012D20 gene, UDP glycosyltransferase 2 family, polypeptide B17, UDP-glucuronosyltransferase 2 family, member 5, expressed sequence AA986709

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4368	1537	U27518	ss		ESTs, Moderately similar to UDB5 MOUSE UDP-GLUCURONOSYLTRANSFERASE 2B5 PRECURSOR, MICROSOMAL [M.musculus], Mus musculus; Similar to UDP glycosyltransferase 2 family, polypeptide B4, clone MGC:37823 IMAGE:5098890, mRNA, complete cds, RIKEN cDNA 1300012D20 gene, UDP glycosyltransferase 2 family, polypeptide B17, UDP-glucuronosyltransferase 2 family, member 5, expressed sequence AA986709
1975	18466	A1111828	oo		ESTs, Moderately similar to Y196_HUMAN HYPOTHETICAL PROTEIN KIAA0196 [H.sapiens], Homo sapiens cDNA FLJ32440 fis, clone SKMUS2001492, KIAA0196 gene product
433	23301	AA859975	w		ESTs, Weakly similar to 2-oxoglutarate carrier [Rattus norvegicus] [R.norvegicus], solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 10, solute carrier family 25 (mitochondrial carrier, oxoglutarate carrier), member 11
3646	23976	NM_023104	jj		ESTs, Weakly similar to acetyl-CoA synthetase [Homo sapiens] [H.sapiens], RIKEN cDNA 2210408B16 gene, acetyl- Coenzyme A-synthetase 1 (AMP forming)
3517	18727	NM_021577	g, m		ESTs, Weakly similar to argininosuccinate lyase [Rattus norvegicus] [R.norvegicus], argininosuccinate lyase
3694	1995	NM_030850	d, h, uu		ESTs, Weakly similar to betaine- homocysteine methyltransferase [Rattus norvegicus] [R.norvegicus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930572N12:betaine- homocysteine methyltransferase, full insert sequence, betaine-homocysteine methyltransferase, betaine-homocysteine methyltransferase 2
4094	17279	NM_053977	t, mm		ESTs, Weakly similar to cadherin 17 [Rattus norvegicus] [R.norvegicus], cadherin 16, cadherin 16, KSP-cadherin, cadherin 17, cadherin 17, LI cadherin (liver-intestine)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4094	17280	NM_053977	mm		ESTs, Weakly similar to cadherin 17 [Rattus norvegicus] [R.norvegicus], cadherin 16, cadherin 16, KSP-cadherin, cadherin 17, cadherin 17, LI cadherin (liver-intestine)
2982	25389	L41684	ll		ESTs, Weakly similar to cadherin EGF LAG seven-pass G-type receptor [Mus musculus] [M.musculus], FAT tumor suppressor homolog 1 (Drosophila), Fta3 protein, cadherin 23 (otocadherin), calyntenin 1, calyntenin 2
4218	2641	NM_134408	w, General		ESTs, Weakly similar to cadherin EGF LAG seven-pass G-type receptor [Mus musculus] [M.musculus], KIAA1828 protein, cadherin EGF LAG seven-pass G-type receptor 1, cadherin EGF LAG seven-pass G-type receptor 3
3547	20248	NM_022205	y		ESTs, Weakly similar to CXC chemokine receptor [Rattus norvegicus] [R.norvegicus], G protein-coupled receptor, chemokine (C-X-C motif), receptor 4 (fusin), chemokine (C-X-C) receptor 4
3547	20249	NM_022205	tt		ESTs, Weakly similar to CXC chemokine receptor [Rattus norvegicus] [R.norvegicus], G protein-coupled receptor, chemokine (C-X-C motif), receptor 4 (fusin), chemokine (C-X-C) receptor 4
1082	23747	AA956329	gg, hh		ESTs, Weakly similar to delta-6 fatty acid desaturase [Rattus norvegicus] [R.norvegicus], delta-6 fatty acid desaturase, expressed sequence AI464531, fatty acid desaturase 2, fatty acid desaturase 3
2384	12408	AI178762	qq		ESTs, Weakly similar to delta-6 fatty acid desaturase [Rattus norvegicus] [R.norvegicus], delta-6 fatty acid desaturase, expressed sequence AI464531, fatty acid desaturase 2, fatty acid desaturase 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3914	22301	NM_031967	d		ESTs, Weakly similar to development-related protein [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to NDRG family, member 4, clone MGC:7067 IMAGE:3156802, mRNA, complete cds, N-myc downstream regulated 1, N-myc downstream regulated 2, N-myc downstream regulated 3, N-myc downstream regulated gene 1
4193	16993	NM_133583	a, d, m		ESTs, Weakly similar to development-related protein [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to NDRG family, member 4, clone MGC:7067 IMAGE:3156802, mRNA, complete cds, N-myc downstream regulated 2, N-myc downstream regulated 3, N-myc downstream regulated gene 1, RIKEN cDNA 1110025J03 gene, development-related protein
4193	15029	NM_133583	oo		ESTs, Weakly similar to development-related protein [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to NDRG family, member 4, clone MGC:7067 IMAGE:3156802, mRNA, complete cds, N-myc downstream regulated 2, N-myc downstream regulated 3, N-myc downstream regulated gene 1, RIKEN cDNA 1110025J03 gene, development-related protein
3523	19173	NM_021661	n		ESTs, Weakly similar to G alpha interacting protein [Rattus norvegicus] [R.norvegicus], regulator of G-protein signaling 17, regulator of G-protein signaling 19, regulator of G-protein signaling 20, regulator of G-protein signalling 19, regulator of G-protein signalling 20
567	6967	AA891810	pp		ESTs, Weakly similar to g1-related zinc finger protein [Mus musculus] [M.musculus], Homo sapiens, clone IMAGE:3956746, mRNA, partial cds, g1-related zinc finger protein, similar to RIKEN cDNA 1300002C13
567	6968	AA891810	q, x, ss		ESTs, Weakly similar to g1-related zinc finger protein [Mus musculus] [M.musculus], Homo sapiens, clone IMAGE:3956746, mRNA, partial cds, g1-related zinc finger protein, similar to RIKEN cDNA 1300002C13



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3623	24458	NM_022706	b		ESTs, Weakly similar to GABA(A) receptor-associated protein like 2; ganglioside expression factor 2 [Rattus norvegicus] [R.norvegicus], GABA(A) receptor-associated protein, GABA(A) receptor-associated protein like 1, GABA(A) receptor-associated protein like 2, GABA(A) receptor-associated protein-like 2, GABA(A) receptors associated protein like 3, gamma-aminobutyric acid (GABA(A)) receptor-associated protein-like 1, gamma-aminobutyric acid receptor associated protein
1337	11322	AI009492	j		ESTs, Weakly similar to hypothetical protein [Homo sapiens] [H.sapiens]
2752	7691	AI236611	v, x, bb		ESTs, Weakly similar to isopentenyl-diphosphate delta isomerase [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to isopentenyl-diphosphate delta isomerase, clone MGC:8139 IMAGE:3589498, mRNA, complete cds, diphosphate dimethylallyl diphosphate isomerase 2, isopentenyl-diphosphate delta isomerase
3993	1058	NM_053539	d, o, q, v, jj, pp		ESTs, Weakly similar to isopentenyl-diphosphate delta isomerase [Rattus norvegicus] [R.norvegicus], Mus musculus, Similar to isopentenyl-diphosphate delta isomerase, clone MGC:8139 IMAGE:3589498, mRNA, complete cds, diphosphate dimethylallyl diphosphate isomerase 2, isopentenyl-diphosphate delta isomerase
4157	3880	NM_130749	bb		ESTs, Weakly similar to MAP/microtubule affinity-regulating kinase 3; ELKL motif kinase 2 long form [Mus musculus] [M.musculus], MAP/microtubule affinity-regulating kinase 3, Mus musculus, clone MGC:36574 IMAGE:5098034, mRNA, complete cds, PAS domain containing serine/threonine kinase, serine/threonine kinase 22C (spermionogenesis associated)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4026	20951	NM_053651	nn		ESTs, Weakly similar to NK2 transcription factor related, locus 5 (Drosophila) [Rattus norvegicus] [R.norvegicus], H6 homeo box 1, NK2 transcription factor related, locus 3 (Drosophila), NK2 transcription factor related, locus 5 (Drosophila), bagpipe homeobox gene 1 homolog (Drosophila), bagpipe homeobox homolog 1 (Drosophila), cardiac-specific homeo box
3716	16560	NM_031020	t		ESTs, Weakly similar to p38 mitogen activated protein kinase [Rattus norvegicus] [R.norvegicus], mitogen activated protein kinase 14, mitogen-activated protein kinase 11, mitogen-activated protein kinase 14
3716	16562	NM_031020	l, p, ss, uu		ESTs, Weakly similar to p38 mitogen activated protein kinase [Rattus norvegicus] [R.norvegicus], mitogen activated protein kinase 14, mitogen-activated protein kinase 11, mitogen-activated protein kinase 14
3716	16564	NM_031020	k, l		ESTs, Weakly similar to p38 mitogen activated protein kinase [Rattus norvegicus] [R.norvegicus], mitogen activated protein kinase 14, mitogen-activated protein kinase 11, mitogen-activated protein kinase 14
3716	16565	NM_031020	t		ESTs, Weakly similar to p38 mitogen activated protein kinase [Rattus norvegicus] [R.norvegicus], mitogen activated protein kinase 14, mitogen-activated protein kinase 11, mitogen-activated protein kinase 14
3923	15265	NM_031981	p, w, ff		ESTs, Weakly similar to p47 [Homo sapiens] [H.sapiens], RIKEN cDNA 3110003A22 gene
4259	17115	NM_138905	l, m, General, kk		ESTs, Weakly similar to phosphatidic acid phosphatase type 2B [Mus musculus] [M.musculus], phosphatidate phosphohydrolase type 2a, phosphatidic acid phosphatase 2a, phosphatidic acid phosphatase type 2A, phosphatidic acid phosphatase type 2B, phosphatidic acid phosphatase type 2C, phosphatidic acid phosphatase type 2c

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
478	14951	AA875037	y		ESTs, Weakly similar to plasminogen activator inhibitor 2 type A [Rattus norvegicus] [R.norvegicus], Mus musculus SPI3C (Serpinb6c) mRNA, complete cds, expressed sequence A1876477, expressed sequence C76171, plasminogen activator inhibitor 2 type A, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 2, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 6, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 9, serine protease inhibitor 16
3502	24066	NM_019384	d, kk		ESTs, Weakly similar to Ser/Arg-related nuclear matrix protein; plenty-of-prolines-101; serine/arginine repetitive matrix protein 1 [Mus musculus] [M.musculus], ESTs, Weakly similar to A35938 profilaggrin [H.sapiens], ESTs, Weakly similar to A55817 cyclin-dependent kinase p130-PITSLRE - mouse [M.musculus], Mus musculus, Similar to hypothetical protein MGC13125, clone MGC:38070 IMAGE:5252666, mRNA, complete cds, expressed sequence A1480556, expressed sequence AW742389, glucocorticoid-induced gene 1, serine arginine-rich pre-mRNA splicing factor SR-A1, serine/arginine repetitive matrix 1, serine/arginine repetitive matrix 2, splicing factor, arginine/serine-rich 2, interacting protein
3878	16624	NM_031751	k		ESTs, Weakly similar to SH3/ankyrin domain gene 3; Shank3b protein [Mus musculus] [M.musculus], ESTs, Weakly similar to PRP3 MOUSE PROLINE-RICH PROTEIN MP-3 [M.musculus], HLA-B associated transcript 8, SH3/ankyrin domain gene 3, ankyrin repeat and SOCS box-containing 16, hypothetical protein FI.J22427
4152	6909	NM_130413	qq		ESTs, Weakly similar to SKAP55 homologue; Src-associated adaptor protein [Mus musculus] [M.musculus], SH3-domain binding protein 2, src family associated phosphoprotein 1, src family associated phosphoprotein 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3622	24423	NM_022703	m, r, gg, hh, pp		ESTs, Weakly similar to small glutamine-rich tetratricopeptide repeat (TPR) containing protein (SGT) [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to PPP5 MOUSE SERINE/THREONINE PROTEIN PHOSPHATASE 5 [M.musculus], ESTs, Weakly similar to T08782 hypothetical protein DKFZp586N1020.1 [H.sapiens], Mus musculus, clone MGC:27660 IMAGE:4527683, mRNA, complete cds, RIKEN cDNA 2310015L07 gene, RIKEN cDNA 5330427H01 gene, STIP1 homology and U-Box containing protein 1, protein phosphatase 5, catalytic subunit, small glutamine-rich tetratricopeptide repeat (TPR)-containing, sperm associated antigen 1, stress-induced-phosphoprotein 1
3926	19768	NM_031986	pp		ESTs, Weakly similar to syntenin [Rattus norvegicus] [R.norvegicus], syndecan binding protein, syndecan binding protein (syntenin), syndecan binding protein (syntenin) 2
1373	12310	AI010362	gg, hh		ESTs, Weakly similar to vasopressin-activated calcium-mobilizing receptor protein [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 4921514I20 gene, cullin 1, cullin 2, cullin-4B, cullin 5, vasopressin-activated calcium-mobilizing receptor protein
4059	20421	NM_053821	a, vv		ESTs, Weakly similar to v-ral simian leukemia viral oncogene homolog B (ras related) [Rattus norvegicus] [R.norvegicus], v-ral simian leukemia viral oncogene homolog B (ras related), v-ral simian leukemia viral oncogene homolog B (ras related), GTP binding protein
3418	520	NM_017345	n		ESTs, Weakly similar to 1411301A neural adhesion mol L1 [M.musculus], cell adhesion molecule with homology to L1CAM (close homolog of L1), close homolog of L1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
282	7749	AA848804	jj		ESTs, Weakly similar to 1607338A transcription factor BTF3a [H.sapiens], Mus musculus, basic transcription factor 3, clone MGC:6799 IMAGE:2648048, mRNA, complete cds, RIKEN cDNA 1700054E11 gene, RIKEN cDNA 5730434I03 gene, basic transcription factor 3
3249	20150	NM_013135	oo		ESTs, Weakly similar to 1615347A ras p21 GTPase activating protein [M.musculus], ESTs, Weakly similar to SH2/SH3 adaptor protein [M.musculus], Mus musculus, Similar to RAS p21 protein activator, clone MGC:7759 IMAGE:3498774, mRNA, complete cds, RAS p21 protein activator (GTPase activating protein) 1, dual adaptor for phosphotyrosine and 3-phosphoinositides 1
3701	8815	NM_030991	ff		ESTs, Weakly similar to 2122252A Lasp-1 protein [H.sapiens], LIM and SH3 protein 1, RIKEN cDNA 1200007O21 gene
470	16146	AA874934	y		ESTs, Weakly similar to A Chain A, The C2b Domain Of Rabphilin: Structural Variations In A Janus-Faced Domain [R.norvegicus], Homo sapiens mRNA for FLJ00210 protein, double C2, beta, double C2-like domains, alpha, expressed sequence A1854876, likely ortholog of mouse rabphilin 3A
3366	18445	NM_017220	y		ESTs, Weakly similar to A26882 pL2 hypothetical protein - rat [R.norvegicus], ESTs, Weakly similar to AF191020 1 E2IG5 [H.sapiens], RIKEN cDNA 2310056P07 gene, RIKEN cDNA 9430073N08 gene, hypothetical protein, estradiol-induced
4304	1798	NM_145779	a, d, m, uu, vv		ESTs, Weakly similar to A2MG MOUSE ALPHA-2-MACROGLOBULIN PRECURSOR [M.musculus], Mus musculus GPI-anchored alpha-2 macroglobulin-related protein mRNA, complete cds, alpha-2-macroglobulin
3030	1138	M76740	cc		ESTs, Weakly similar to A39321 mucin - rat [R.norvegicus], mucin 17, mucin 3, intestinal, mucin 3B, silver

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2145	15403	AI170714	m, dd		ESTs, Weakly similar to A40389 translation elongation factor eEF-1 alpha chain (clone pS1) - rat [R.norvegicus], HBS1-like (S. cerevisiae), Hbs1-like (S. cerevisiae), Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 1657957, RIKEN cDNA 4930594C11 gene, Tu translation elongation factor, mitochondrial, eukaryotic translation elongation factor 1 alpha 2
2247	15404	AI175760	dd		ESTs, Weakly similar to A40389 translation elongation factor eEF-1 alpha chain (clone pS1) - rat [R.norvegicus], HBS1-like (S. cerevisiae), Hbs1-like (S. cerevisiae), Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 1657957, RIKEN cDNA 4930594C11 gene, Tu translation elongation factor, mitochondrial, eukaryotic translation elongation factor 1 alpha 2
3040	2694	M92340	rr		ESTs, Weakly similar to A44257 interleukin-6 signal transducing molecule gp130 - rat [R.norvegicus], Mus musculus mRNA for cytokine receptor NR10, complete cds, colony stimulating factor 3 receptor (granulocyte), cytokine receptor-like factor 1, interleukin 12 receptor, beta 2, interleukin 6 signal transducer, interleukin 6 signal transducer (gp130, oncostatin M receptor)
834	4931	AA924261	oo		ESTs, Weakly similar to A44468 26S proteasome regulatory chain 4 [H.sapiens]
2556	20055	AI230762	rr		ESTs, Weakly similar to A53742 calponin, acidic - rat [R.norvegicus], Homo sapiens, clone IMAGE:4669781, mRNA, partial cds
1122	8430	AA964033	t		ESTs, Weakly similar to A54691 octamer-binding protein NonO - mouse [M.musculus], ESTs, Weakly similar to PSF_HUMAN PTB-ASSOCIATED SPLICING FACTOR [H.sapiens], RIKEN cDNA 9030402K04 gene, non-POU-domain-containing, octamer binding protein, splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1269	8426	AF036335	pp		ESTs, Weakly similar to A54691 octamer-binding protein NonO - mouse [M.musculus], ESTs, Weakly similar to PSF_HUMAN PTB-ASSOCIATED SPLICING FACTOR [H.sapiens], RIKEN cDNA 9030402K04 gene, non-POU-domain-containing, octamer binding protein, splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)
1269	8427	AF036335	pp		ESTs, Weakly similar to A54691 octamer-binding protein NonO - mouse [M.musculus], ESTs, Weakly similar to PSF_HUMAN PTB-ASSOCIATED SPLICING FACTOR [H.sapiens], RIKEN cDNA 9030402K04 gene, non-POU-domain-containing, octamer binding protein, splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)
1352	8431	AI009761	y		ESTs, Weakly similar to A54691 octamer-binding protein NonO - mouse [M.musculus], ESTs, Weakly similar to PSF_HUMAN PTB-ASSOCIATED SPLICING FACTOR [H.sapiens], RIKEN cDNA 9030402K04 gene, non-POU-domain-containing, octamer binding protein, splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)
136	17997	AA800671	h, p, w, General		ESTs, Weakly similar to A54854 Ras GTPase activating protein-related protein [H.sapiens]
3425	14979	NM_019126	u, bb, jj		ESTs, Weakly similar to A54879 pregnancy-specific glycoprotein mCGM3 - rat [R.norvegicus], RIKEN cDNA 1600019C01 gene, carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein), expressed sequence AA408604, pregnancy specific glycoprotein 16, pregnancy specific glycoprotein 18, pregnancy specific glycoprotein 19, pregnancy specific glycoprotein pseudogene 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
679	3438	AA892921	r		ESTs, Weakly similar to A55143 calpain (EC 3.4.22.17) light chain - rat (fragment) [R.norvegicus], Mus musculus, Similar to grancalcin, EF-hand calcium binding protein, clone MGC:29240 IMAGE:5044040, mRNA, complete cds, RIKEN cDNA 2310005G05 gene, calpain, small subunit 1, programmed cell death 6, sorcin
4071	18358	NM_053864	x		ESTs, Weakly similar to A55190 transitional endoplasmic reticulum ATPase (EC 3.6.1.-) [validated] - rat [R.norvegicus], ESTs, Weakly similar to TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE [M.musculus], Homo sapiens spermatogenesis associated factor (SPAF) mRNA, complete cds, RIKEN cDNA 4833413G10 gene, RIKEN cDNA 4933439B08 gene, expressed sequence A1195026, katanin p60 (ATPase-containing) subunit A1, nuclear VCP-like, peroxisome biogenesis factor 1, spermatogenesis associated factor, valosin containing protein, valosin-containing protein
3562	695	NM_022388	y		ESTs, Weakly similar to A55571 chloride conductance inducer Mat-8 [H.sapiens], FXYD domain-containing ion transport regulator 3, FXYD domain-containing ion transport regulator 4
3566	23060	NM_022394	u		ESTs, Weakly similar to A55817 cyclin-dependent kinase p130-PITSLRE - mouse [M.musculus], RIKEN cDNA 2600011L02 gene, RIKEN cDNA A930036K24 gene, aldehyde dehydrogenase family 5, subfamily A1, cell division cycle 2 homolog (S. pombe)-like 2, expressed sequence A1255170, scaffold attachment factor B
2065	19034	A1145768	u		ESTs, Weakly similar to A55817 cyclin-dependent kinase p130-PITSLRE - mouse [M.musculus], RIKEN cDNA 2600011L02 gene, RIKEN cDNA A930036K24 gene, aldehyde dehydrogenase family 5, subfamily A1, cell division cycle 2 homolog (S. pombe)-like 2, splicing factor, arginine/serine-rich 11



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2883	19053	D12770	j, o		ESTs, Weakly similar to ADT1 MOUSE ADP,ATP CARRIER PROTEIN, HEART/SKELETAL MUSCLE ISOFORM T1 [M.musculus], Mus musculus, Similar to RIKEN cDNA 1700066C05 gene, clone MGC:28125 IMAGE:3980327, mRNA, complete cds, RIKEN cDNA 1700034J06 gene, solute carrier family 25 (mitochondrial carrier, Aralar), member 12, solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4
1011	21334	AA945753	pp		ESTs, Weakly similar to ANM2_HUMAN PROTEIN ARGININE N-METHYLTRANSFERASE 2 [H.sapiens], protein arginine N-methyltransferase 6
4064	16590	NM_053838	v		ESTs, Weakly similar to ATRIAL NATRIURETIC PEPTIDE RECEPTOR A PRECURSOR [M.musculus], Mus musculus, Similar to natriuretic peptide receptor 2, clone IMAGE:5052434, mRNA, partial cds, natriuretic peptide receptor 1, natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B), receptor-interacting serine-threonine kinase 2
4263	287	NM_139042	xx		ESTs, Weakly similar to ATRIAL NATRIURETIC PEPTIDE RECEPTOR A PRECURSOR [M.musculus], Mus musculus, Similar to natriuretic peptide receptor 2, clone IMAGE:5052434, mRNA, partial cds, RIKEN cDNA 2410077105 gene, natriuretic peptide receptor 1, natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
2867	8107	AI639534	pp		ESTs, Weakly similar to ATS4_RAT ADAMTS-4 precursor (A disintegrin and metalloproteinase with thrombospondin motifs 4) (ADAM-TS 4) (ADAM-TS4) (Aggrecanase 1) [R.norvegicus], RIKEN cDNA 2010109H09 gene, a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 4, properdin factor complement
164	19440	AA800946	ll		ESTs, Weakly similar to B Chain B, Crystal Structure Of The D1d2 Sub-Complex From The Human Snrnp Core Domain [H.sapiens]

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4179	19326	NM_133419	q, ss		ESTs, Weakly similar to B41182 collagen alpha 1(II) chain precursor [M.musculus], PUMA/JFY1 protein, RIKEN cDNA 4933407C03 gene, RIKEN cDNA 5730512J02 gene, dyskeratosis congenita 1, dyskerin
3715	24658	NM_031018	ff		ESTs, Weakly similar to B42026 cyclic AMP response element DNA-binding protein isoform 1 - mouse [M.musculus], Mus musculus, Similar to activating transcription factor 7, clone MGC:31554 IMAGE:4503463, mRNA, complete cds, activating transcription factor 2, activating transcription factor 7, cAMP response element-binding protein CRE-BPa
3482	1099	NM_019303	y		ESTs, Weakly similar to C2F1_HUMAN CYTOCHROME P450 2F1 [H.sapiens], cytochrome P450 monooxygenase CYP2T1, cytochrome P450, 2f2, cytochrome P450, subfamily IIF, polypeptide 1
4185	1394	NM_133536	l, v, xx		ESTs, Weakly similar to C34323 GTP-binding protein Rab3A [H.sapiens], RAB23, member RAS oncogene family, RAB3A, member RAS oncogene family, RAB3C, member RAS oncogene family, hypothetical protein BC013033
3972	16017	NM_053401	a		ESTs, Weakly similar to C35826 hypothetical 13K protein A [H.sapiens], X-linked protein, brain expressed X-linked 2, nerve growth factor receptor (TNFRSF16) associated protein 1, reduced expression 3
3972	16018	NM_053401	a, j		ESTs, Weakly similar to C35826 hypothetical 13K protein A [H.sapiens], X-linked protein, brain expressed X-linked 2, nerve growth factor receptor (TNFRSF16) associated protein 1, reduced expression 3
3480	24883	NM_019293	e, k, u		ESTs, Weakly similar to CAH5_RAT Carbonic anhydrase VA, mitochondrial precursor (Carbonate dehydratase VA) (CA-VA) [R.norvegicus], carbonic anhydrase 11, carbonic anhydrase 5a, mitochondrial, carbonic anhydrase 5b, mitochondrial, carbonic anhydrase VA, mitochondrial, carbonic anhydrase VB, mitochondrial

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3600	20944	NM_022597	m, ff, ii		ESTs, Weakly similar to CATB MOUSE CATHEPSIN B PRECURSOR [M.musculus], cathepsin B
225	4491	AA818798	xx		ESTs, Weakly similar to CATZ_HUMAN Cathepsin Z precursor (Cathepsin X) (Cathepsin P) [H.sapiens], cathepsin Z, expressed sequence AU019819
332	4490	AA851184	ii		ESTs, Weakly similar to CATZ_HUMAN Cathepsin Z precursor (Cathepsin X) (Cathepsin P) [H.sapiens], cathepsin Z, expressed sequence AU019819
2652	10378	AI233300	I		ESTs, Weakly similar to CO5 MOUSE COMPLEMENT C5 PRECURSOR [M.musculus], complement component 5, hemolytic complement
264	230	AA819870	uu		ESTs, Weakly similar to CO9 MOUSE COMPLEMENT COMPONENT C9 [M.musculus], Mus musculus, Similar to complement component 8, alpha polypeptide, clone MGC:29381 IMAGE:5052412, mRNA, complete cds, RIKEN cDNA 4930439B20 gene, complement component 8, beta polypeptide
4366	228	U20194	uu		ESTs, Weakly similar to CO9 MOUSE COMPLEMENT COMPONENT C9 [M.musculus], Mus musculus, Similar to complement component 8, alpha polypeptide, clone MGC:29381 IMAGE:5052412, mRNA, complete cds, RIKEN cDNA 4930439B20 gene, complement component 8, beta polypeptide
4366	229	U20194	General		ESTs, Weakly similar to CO9 MOUSE COMPLEMENT COMPONENT C9 [M.musculus], Mus musculus, Similar to complement component 8, alpha polypeptide, clone MGC:29381 IMAGE:5052412, mRNA, complete cds, RIKEN cDNA 4930439B20 gene, complement component 8, beta polypeptide
1864	13892	AI102438	gg, hh		ESTs, Weakly similar to cornichon [H.sapiens], Homo sapiens clone 24453 mRNA sequence, RIKEN cDNA D530030D03 gene, cornichon homolog (Drosophila), cornichon-like

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1922	20833	AI104035	mm		ESTs, Weakly similar to COXG MOUSE CYTOCHROME C OXIDASE POLYPEPTIDE VIB [M.musculus], Homo sapiens, hypothetical gene LOC125965, clone MGC:33640 IMAGE:4827471, mRNA, complete cds
4298	1562	NM_145097	j, o, x, uu		ESTs, Weakly similar to CPI3_RAT CONTRAPSIN-LIKE PROTEASE INHIBITOR 3 PRECURSOR (CPI-23) (SERINE PROTEASE INHIBITOR 1) (SPI-1) [R.norvegicus], serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4, serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1, serine protease inhibitor 2, serine protease inhibitor 2 related sequence 1
3505	20716	NM_019623	b, l, General, gg, hh, ll, uu		ESTs, Weakly similar to CYP4B1 [M.musculus], RIKEN cDNA 1810054N16 gene, cytochrome P450, subfamily IVF, polypeptide 14 (leukotriene B4 omega hydroxylase), cytochrome P450, subfamily IVF, polypeptide 2, cytochrome P450, subfamily IVF, polypeptide 8, expressed sequence AW108534, expressed sequence AW111961
3241	1797	NM_013105	j, r, jj		ESTs, Weakly similar to cytochrome P450 3A13 [M.musculus], Mus musculus mRNA for cytochrome P450, CYP3A, complete cds, cytochrome P450, steroid inducible 3a11, cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 3
4261	21915	NM_138910	dd		ESTs, Weakly similar to DAD1_HUMAN Defender against cell death 1 (DAD-1) [R.norvegicus], defender against cell death 1
4261	21916	NM_138910	ll		ESTs, Weakly similar to DAD1_HUMAN Defender against cell death 1 (DAD-1) [R.norvegicus], defender against cell death 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3679	25070	NM_024392	o, General		ESTs, Weakly similar to DHB4 MOUSE ESTRADIOL 17 BETA-DEHYDROGENASE 4 [M.musculus], ESTs, Weakly similar to DHB4_HUMAN ESTRADIOL 17 BETA- DEHYDROGENASE 4 [H.sapiens], RIKEN cDNA 1110029G07 gene, RIKEN cDNA 1700010M22 gene, RIKEN cDNA 3110069K09 gene, hydroxysteroid (17-beta) dehydrogenase 4
3679	9929	NM_024392	p, w, ss		ESTs, Weakly similar to DHB4 MOUSE ESTRADIOL 17 BETA-DEHYDROGENASE 4 [M.musculus], ESTs, Weakly similar to DHB4_HUMAN ESTRADIOL 17 BETA- DEHYDROGENASE 4 [H.sapiens], RIKEN cDNA 1110029G07 gene, RIKEN cDNA 1700010M22 gene, RIKEN cDNA 3110069K09 gene, hydroxysteroid (17-beta) dehydrogenase 4
3679	9931	NM_024392	o, xx		ESTs, Weakly similar to DHB4 MOUSE ESTRADIOL 17 BETA-DEHYDROGENASE 4 [M.musculus], ESTs, Weakly similar to DHB4_HUMAN ESTRADIOL 17 BETA- DEHYDROGENASE 4 [H.sapiens], RIKEN cDNA 1110029G07 gene, RIKEN cDNA 1700010M22 gene, RIKEN cDNA 3110069K09 gene, hydroxysteroid (17-beta) dehydrogenase 4
4024	857	NM_053633	tt		ESTs, Weakly similar to EGR2 MOUSE EARLY GROWTH RESPONSE PROTEIN 2 [M.musculus], MYC-associated zinc finger protein (purine-binding transcription factor), early growth response 2, early growth response 2 (Krox-20 homolog, Drosophila)
2505	6604	AI229192	xx		ESTs, Weakly similar to FA7 MOUSE COAGULATION FACTOR VII PRECURSOR [M.musculus], coagulation factor IX, coagulation factor X, proline-rich Gla (G-carboxyglutamic acid) polypeptide 1, protein Z, vitamin K-dependent plasma clotting protein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
460	16013	AA866482	r, x		ESTs, Weakly similar to FGD1 MOUSE PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [M.musculus], Mus musculus actin-binding protein frabin-alpha mRNA, complete cds, RIKEN cDNA 5830461L01 gene, faciogenital dysplasia (Aarskog-Scott syndrome), faciogenital dysplasia homolog
486	20701	AA875097	b, m, General		ESTs, Weakly similar to FIBA_RAT Fibrinogen alpha/alpha-E chain precursor [R.norvegicus], Homo sapiens clone HQ0582, expressed sequence AI303526, fibrinogen, A alpha polypeptide, fibrinogen, alpha polypeptide, fibrinogen, gamma polypeptide
4135	23550	NM_080698	f		ESTs, Weakly similar to FMOD_HUMAN FIBROMODULIN PRECURSOR [H.sapiens], fibromodulin, fibronectin leucine rich transmembrane protein 1, fibronectin leucine rich transmembrane protein 2, fibronectin leucine rich transmembrane protein 3, hypothetical protein FLJ23447
1375	15624	AI010449	qq		ESTs, Weakly similar to FRP MOUSE FOLLISTATIN-RELATED PROTEIN PRECURSOR [M.musculus], follistatin-like, follistatin-like 1
2325	14083	AI177181	n		ESTs, Weakly similar to FYV1 MOUSE FYVE FINGER-CONTAINING PHOSPHOINOSITIDE KINASE [M.musculus], MAD, mothers against decapentaplegic homolog (Drosophila) interacting protein, receptor activation anchor, RIKEN cDNA 1110013H04 gene, myotubularin related protein 3, phosphatidylinositol-4-phosphate 5-kinase, type III
1429	20817	AI012589	c		ESTs, Weakly similar to GTP_RAT Glutathione S-transferase P (GST 7-7) (Chain 7) (GST class-pi) [R.norvegicus], Mus musculus, clone MGC:37914 IMAGE:5102505, mRNA, complete cds, glutathione S-transferase pi, glutathione S-transferase pi 2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1944	12342	AI104658	oo		ESTs, Weakly similar to I48724 zinc finger protein PZF - mouse [M.musculus], Growth factor independent-1, expressed sequence AA415813, expressed sequence AI839920, expressed sequence AL024263, growth factor independent 1, growth factor independent 1B, growth factor independent 1B (potential regulator of CDKN1A, translocated in CML), zinc finger protein 91, zinc finger protein 91 homolog (mouse)
4202	25200	NM_133610	cc		ESTs, Weakly similar to I48912 potassium channel subunit - mouse [M.musculus], potassium channel protein erg3, potassium voltage-gated channel, subfamily H (eag-related), member 1
4147	11421	NM_130405	w, tt		ESTs, Weakly similar to I49140 p62 ras-GAP associated phosphoprotein - mouse [M.musculus], Homo sapiens Sam68-like mammalian protein 1 (SLM1) mRNA, complete cds, KH domain containing, RNA binding, signal transduction associated 1, homolog of mouse quaking QKI (KH domain RNA binding protein), quaking
1213	3746	AA998268	b, bb		ESTs, Weakly similar to I53171 pantophysin [H.sapiens], RIKEN cDNA 1500003F20 gene, Synaptophysin, mitsugumin 29, pantophysin, synaptophysin, synaptophysin-like protein
2204	6630	AI172184	b		ESTs, Weakly similar to I53171 pantophysin [H.sapiens], RIKEN cDNA 1500003F20 gene, Synaptophysin, mitsugumin 29, pantophysin, synaptophysin, synaptophysin-like protein
2730	7604	AI236039	ll		ESTs, Weakly similar to I56519 taipoxin-associated calcium binding protein-49 precursor - rat [R.norvegicus], Homo sapiens cDNA FLJ14474 fis, clone MAMMA1001256, calumenin, reticulocalbin 1, EF-hand calcium binding domain, reticulocalbin 2, reticulocalbin 2, EF-hand calcium binding domain

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2872	7602	AJ001929	b, q, v, ii, ll, xx		ESTs, Weakly similar to I56519 taipoxin-associated calcium binding protein-49 precursor - rat [R.norvegicus], Homo sapiens cDNA FLJ14474 fis, clone MAMMA1001256, calumenin, reticulocalbin 1, EF-hand calcium binding domain, reticulocalbin 2, reticulocalbin 2, EF-hand calcium binding domain
1505	2699	AI029306	ii		ESTs, Weakly similar to I58376 hypothetical protein unp - mouse [M.musculus], Homo sapiens cDNA FLJ30626 fis, clone CTONG2001911, weakly similar to UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 4 (EC 3.1.2.15), KIAA1203 protein, Mus musculus, clone IMAGE:3711168, mRNA, partial cds, RIKEN cDNA 4930550B20 gene
1244	11745	AB006450	gg, hh		ESTs, Weakly similar to IM7A_RAT. Mitochondrial import inner membrane translocase subunit TIM17 A [R.norvegicus], translocase of inner mitochondrial membrane 17 homolog A (yeast), translocase of inner mitochondrial membrane 17 homolog B (yeast), translocator of inner mitochondrial membrane 17 kDa a
1292	11251	AI007666	ii		ESTs, Weakly similar to JC4647 KW8 protein - rat [R.norvegicus], ESTs, Weakly similar to JC4688 neuro D-related factor - mouse [M.musculus], basic helix-loop-helix domain containing, class B, 4, hypothetical protein FLJ14708, neurogenic differentiation 2, neurogenic differentiation 4, oligodendrocyte lineage transcription factor 2



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3860	16664	NM_031695	v		ESTs, Weakly similar to JC5251 beta-galactoside alpha-2,3-sialyltransferase [H.sapiens], sialyltransferase, sialyltransferase 4A (beta-galactosidase alpha-2,3-sialyltransferase), sialyltransferase 4B (beta-galactosidase alpha-2,3-sialyltransferase), sialyltransferase 5, sialyltransferase 7 ((alpha-N-acetylneuraminy 2,3-beta-galactosyl-1,3)-N-acetyl galactosaminde alpha-2,6-sialyltransferase) A, sialyltransferase 7 ((alpha-N-acetylneuraminy 2,3-beta-galactosyl-1,3)-N-acetyl galactosaminde alpha-2,6-sialyltransferase) B, sialyltransferase 7D ((alpha-N-acetylneuraminy 2,3-beta-galactosyl-1,3)-N-acetyl galactosaminde alpha-2,6-sialyltransferase)
1208	12628	AA998123	General		ESTs, Weakly similar to JC5707 HYA22 protein [H.sapiens], hypothetical protein BC010736
3361	18050	NM_017204	nn		ESTs, Weakly similar to JC5963 stable tubule only polypeptide - mouse [M.musculus], KIAA1878 protein, RIKEN cDNA 1700041N15 gene, hypothetical protein FLJ12748, microtubule-associated protein 6, proteoglycan 4, (megakaryocyte stimulating factor, articular superficial zone protein, camptodactyly, arthropathy, coxa vara pericarditis syndrome)
1112	5952	AA963102	r		ESTs, Weakly similar to JC7328 amino acid transporter A1 [H.sapiens], Homo sapiens clone 24674 mRNA sequence, solute carrier family 38, member 1, solute carrier family 38, member 2
2162	5953	AI171231	r, y, z, tt		ESTs, Weakly similar to JC7328 amino acid transporter A1 [H.sapiens], Homo sapiens clone 24674 mRNA sequence, solute carrier family 38, member 1, solute carrier family 38, member 2
1276	15801	AF061443	p		ESTs, Weakly similar to JG0193 G protein-coupled receptor FEX - mouse [M.musculus], G protein-coupled receptor 106, G protein-coupled receptor 49, Mus musculus, clone IMAGE:3982506, mRNA, partial cds, RIKEN cDNA 4921529O18 gene, RIKEN cDNA A330106J01 gene, follicle stimulating hormone receptor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1110	23541	AA957999	f, l, nn		ESTs, Weakly similar to MCAT_HUMAN MITOCHONDRIAL CARNITINE/ACYLCARNITINE CARRIER PROTEIN [H.sapiens], ESTs, Weakly similar to PM34_MOUSE PEROXISOMAL MEMBRANE PROTEIN PMP34 (34 KDA PEROXISOMAL MEMBRANE PROTEIN) (SOLUTE CARRIER FAMILY 25, MEMBER 17) [M.musculus], ESTs, Weakly similar to TXTP_HUMAN TRICARBOXYLATE TRANSPORT PROTEIN PRECURSOR [H.sapiens], Homo sapiens, similar to solute carrier family 25 (carnitine/acylcarnitine translocase), member 20, clone MGC:35539 IMAGE:5200129, mRNA, complete cds, Mus musculus, Similar to hypothetical protein FLJ20551, clone MGC:18873 IMAGE:4235245, mRNA, complete cds, RIKEN cDNA 1300019P08 gene, expressed sequence AI194714, expressed sequence AW108044, ornithine transporter 2, solute carrier family 25 (carnitine/acylcarnitine translocase), member 20, solute carrier family 25 (mitochondrial carrier), member 18, solute carrier family 25 (mitochondrial carrier; citrate transporter) member 1, solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15, uncoupling protein 2, mitochondrial
315	19042	AA850378	t		ESTs, Weakly similar to methyl-CpG binding protein MBD2 [H.sapiens], methyl-CpG binding domain protein 2
3882	16003	NM_031757	j		ESTs, Weakly similar to MM24_MOUSE MATRIX METALLOPROTEINASE-24 PRECURSOR (MMP-24) (MEMBRANE- TYPE MATRIX METALLOPROTEINASE 5) (MT-MMP 5) (MEMBRANE-TYPE-5 MATRIX METALLOPROTEINASE) (MT5- MMP) (MMP-21) [M.musculus], matrix metalloproteinase 17, matrix metalloproteinase 19, matrix metalloproteinase 24, matrix metalloproteinase 24 (membrane-inserted)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1729	17871	AI070601	li		ESTs, Weakly similar to MYOC_MOUSE MYOCILIN PRECURSOR (TRABECULAR MESHWORK-INDUCED GLUCOCORTICOID RESPONSE PROTEIN) [M.musculus], HNOEL-iso protein, mvocilin, olfactomedin 3
1422	3417	AI012337	h, w		ESTs, Weakly similar to NHPX_RAT NHP2-like protein 1 (High mobility group-like nuclear protein 2 homolog 1) ([U4/U6.U5] tri-snRNP 15.5 kDa protein) (OTK27) [R.norvegicus], NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae), RIKEN cDNA 2410130M07 gene, nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs), sperm specific antigen 1
3513	20635	NM_020099	ee		ESTs, Weakly similar to OBRG_RAT Leptin receptor gene-related protein (OB-R gene related protein) (OB-RGRP) [R.norvegicus], RIKEN cDNA 1520402O14 gene, leptin receptor gene-related protein, leptin receptor overlapping transcript-like 1
1266	4292	AF034896	e, h		ESTs, Weakly similar to OL15_MOUSE OLFACTORY RECEPTOR 15 [M.musculus], Homo sapiens cDNA FLJ32992 fis, clone THYMU1000098, Homo sapiens olfactory-like receptor mRNA, complete cds, RIKEN cDNA 493343119 gene, RIKEN cDNA 4933433E02 gene, olfactory receptor 15
4030	1318	NM_053656	g		ESTs, Weakly similar to P2X6_MOUSE P2X PURINOCEPTOR 6 [M.musculus], purinergic receptor P2X, ligand-gated ion channel, 2, purinergic receptor P2X, ligand-gated ion channel, 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4078	16147	NM_053892	y		ESTs, Weakly similar to PA26_RAT 85 kDa calcium-independent phospholipase A2 (iPLA2) (Cal-PLA2) (Group VI phospholipase A2) (GVI PLA2) [R.norvegicus], Homo sapiens cDNA FLJ10428 fis, clone NT2RP1000376, highly similar to Homo sapiens mRNA; cDNA DKFZp434A102, RIKEN cDNA 2310026G15 gene, ankyrin repeat and SOCS box-containing 13, ankyrin repeat and SOCS box-containing protein 1, chromosome 20 open reading frame 86, phospholipase A2, group VI, phospholipase A2, group VI (cytosolic, calcium-independent)
2858	26012	AI639478	pp		ESTs, Weakly similar to PDI_RAT Protein disulfide isomerase precursor (PDI) (Prolyl 4-hydroxylase beta subunit) (Cellular thyroid hormone binding protein) (Thyroxine deiodinase) (Iodothyronine 5'-monodeiodinase) (5'-MD) [R.norvegicus], Homo sapiens cDNA FLJ32115 fis, clone PANC1000021, weakly similar to PROTEIN DISULFIDE ISOMERASE PRECURSOR (PDI) (EC 5.3.4.1), Human DNA sequence from cDNA 16pHQG;19 from chromosome 16p13.3, RIKEN cDNA 1700007B13 gene, RIKEN cDNA 1810033M07 gene, RIKEN cDNA 1810041F13 gene, RIKEN cDNA 1810047B09 gene, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide (protein disulfide isomerase; thyroid hormone binding protein p55), prolyl 4-hydroxylase, beta polypeptide, protein disulfide
3995	15829	NM_053551	y, nn, xx		ESTs, Weakly similar to PDK4_MOUSE [PYRUVATE DEHYDROGENASE [LIPOAMIDE]] KINASE ISOZYME 4, MITOCHONDRIAL PRECURSOR (PYRUVATE DEHYDROGENASE KINASE ISOFORM 4) [M.musculus], pyruvate dehydrogenase kinase 4, pyruvate dehydrogenase kinase, isoenzyme 4

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4229	61	NM_138510	u		ESTs, Weakly similar to PE2R_RAT 20-alpha-hydroxysteroid dehydrogenase (20-alpha-HSD) (HSD1) [R.norvegicus], Mus musculus, Similar to hydroxysteroid (17-beta) dehydrogenase 5, clone MGC:37825 IMAGE:5098938, mRNA, complete cds, aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase), aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III), aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II), expressed sequence AW146047, expressed sequence AW557061, hydroxysteroid (17-beta) dehydrogenase 5
2072	1358	A1146154	mm		ESTs, Weakly similar to PK3G_RAT Phosphatidylinositol 3-kinase C2 domain-containing gamma polypeptide (Phosphoinositide 3-Kinase-C2-gamma) (PtdIns-3-kinase C2 gamma) (PI3K-C2gamma) [R.norvegicus], Homo sapiens cDNA FLJ12591 fis, clone NT2RM4001313, moderately similar to PHOSPHATIDYLINOSITOL 3-KINASE VPS34-LIKE (EC 2.7.1.137), phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide, phosphatidylinositol 3-kinase, catalytic, alpha polypeptide, phosphatidylinositol 4-kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, class 2, gamma polypeptide

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2899	1356	D83538	y		ESTs, Weakly similar to PK3G_RAT Phosphatidylinositol 3-kinase C2 domain- containing gamma polypeptide (Phosphoinositide 3-Kinase-C2-gamma) (PtdIns-3-kinase C2 gamma) (PI3K- C2gamma) [R.norvegicus], Homo sapiens cDNA FLJ12591 fis, clone NT2RM4001313, moderately similar to PHOSPHATIDYLINOSITOL 3-KINASE VPS34-LIKE (EC 2.7.1.137), phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide, phosphatidylinositol 3-kinase, catalytic, alpha polypeptide, phosphatidylinositol 4- kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, class 2, gamma polypeptide
4375	1357	U39572	mm		ESTs, Weakly similar to PK3G_RAT Phosphatidylinositol 3-kinase C2 domain- containing gamma polypeptide (Phosphoinositide 3-Kinase-C2-gamma) (PtdIns-3-kinase C2 gamma) (PI3K- C2gamma) [R.norvegicus], Homo sapiens cDNA FLJ12591 fis, clone NT2RM4001313, moderately similar to PHOSPHATIDYLINOSITOL 3-KINASE VPS34-LIKE (EC 2.7.1.137), phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide, phosphatidylinositol 3-kinase, catalytic, alpha polypeptide, phosphatidylinositol 4- kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, class 2, gamma polypeptide
4316	12700	NM_152936	w		ESTs, Weakly similar to PSG1 MOUSE PROSTATIC SECRETORY GLYCOPROTEIN PRECURSOR [M.musculus], RIKEN cDNA 2310065D10 gene, serine protease inhibitor, Kazal type 1, serine protease inhibitor, Kazal type 3
3773	238	NM_031152	ee		ESTs, Weakly similar to R11A_HUMAN Ras- related protein Rab-11A (RAB-11) (24KG) (YL8) [R.norvegicus], RAB11A, member RAS oncogene family, RAB11a, member RAS oncogene family, RAB25, member RAS oncogene family, expressed sequence AW496496

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3773	240	NM_031152	x		ESTs, Weakly similar to R11A_HUMAN Ras-related protein Rab-11A (RAB-11) (24KG) (YL8) [R.norvegicus], RAB11A, member RAS oncogene family, RAB11a, member RAS oncogene family, RAB25, member RAS oncogene family, expressed sequence AW496496
3752	20807	NM_031106	h		ESTs, Weakly similar to R6RT37 ribosomal protein L37, cytosolic [validated] - rat [R.norvegicus], RIKEN cDNA 1500002F19 gene, RIKEN cDNA 3110005M08 gene, ribosomal protein L37
3034	1379	M83676	qq, vv		ESTs, Weakly similar to RAB8_HUMAN RAS-RELATED PROTEIN RAB-8 [H.sapiens], RAB10, member RAS oncogene family, RAB12, member RAS oncogene family, RAB38, member RAS oncogene family, expressed sequence AW107754
1885	15026	A1103094	General		ESTs, Weakly similar to RB1A_RAT Ras-related protein Rab-1A [R.norvegicus], Homo sapiens, Similar to RAB, member of RAS oncogene family-like 2B, clone MGC:10130 IMAGE:3902486, mRNA, complete cds, RAB1, member RAS oncogene family, RAB19, member RAS oncogene family, RAB1A, member RAS oncogene family, RAB33A, member RAS oncogene family, RAB33B, member of RAS oncogene family, RAB35, member RAS oncogene family, RIKEN cDNA 1110011F09 gene, RIKEN cDNA 2500004H21 gene, RIKEN cDNA 2600013G09 gene, RIKEN cDNA 5033421K01 gene, RIKEN cDNA 9530019H02 gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3742	17173	NM_031090	u, cc		ESTs, Weakly similar to RB1A_RAT Ras-related protein Rab-1A [R.norvegicus], Homo sapiens, Similar to RAB, member of RAS oncogene family-like 2B, clone MGC:10130 IMAGE:3902486, mRNA, complete cds, RAB1, member RAS oncogene family, RAB19, member RAS oncogene family, RAB1A, member RAS oncogene family, RAB33A, member RAS oncogene family, RAB33B, member of RAS oncogene family, RAB35, member RAS oncogene family, RIKEN cDNA 1110011F09 gene, RIKEN cDNA 2500004H21 gene, RIKEN cDNA 2600013G09 gene, RIKEN cDNA 5033421K01 gene, RIKEN cDNA 9530019H02 gene
347	11221	AA851352	ll		ESTs, Weakly similar to RIR1_HUMAN RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE M1 CHAIN [H.sapiens]
1087	23800	AA956534	j		ESTs, Weakly similar to RNG1_HUMAN RING1 PROTEIN [H.sapiens]
3683	23386	NM_024404	gg, hh		ESTs, Weakly similar to ROD_RAT Heterogeneous nuclear ribonucleoprotein. D0 (hnRNP D0) (AU-rich element RNA-binding protein 1) [R.norvegicus], Mus musculus, clone MGC:36467 IMAGE:5359082, mRNA, complete cds, RIKEN cDNA 4933434H11 gene, heterogeneous nuclear ribonucleoprotein D, heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kD), heterogeneous nuclear ribonucleoprotein D-like, high-glycine/tyrosine protein type I E5, musashi homolog 2 (Drosophila)



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3683	25682	NM_024404	c, w		ESTs, Weakly similar to ROD_RAT Heterogeneous nuclear ribonucleoprotein D0 (hnRNP D0) (AU-rich element RNA-binding protein 1) [R.norvegicus], Mus musculus, clone MGC:36467 IMAGE:5359082, mRNA, complete cds, RIKEN cDNA 4933434H11 gene, heterogeneous nuclear ribonucleoprotein D, heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kD), heterogeneous nuclear ribonucleoprotein D-like, high-glycine/tyrosine protein type I E5, musashi homolog 2 (Drosophila)
4197	1308	NM_133591	e		ESTs, Weakly similar to RP3A_RAT Rabphilin-3A [R.norvegicus], Mus musculus, clone IMAGE:3963643, mRNA, partial cds, RIKEN cDNA 6530413F01 gene, cDNA sequence AJ430384, membrane bound C2 domain containing protein, rabphilin 3A, rabphilin 3A-like (without C2 domains)
3916	1475	NM_031971	ee		ESTs, Weakly similar to S10A MOUSE S-100 PROTEIN, ALPHA CHAIN [M.musculus], S100 calcium binding protein A1, S100 calcium binding protein A11 (calizzarin), S100 calcium binding protein P, S100Z protein, expressed sequence AI266795
632	11992	AA892485	kk		ESTs, Weakly similar to S21766 dihydrolipoamide S-acetyltransferase (EC 2.3.1.12) - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, lipoyl-containing component X; E3-binding protein, RIKEN cDNA 1600017E01 gene, RIKEN cDNA 4930529O08 gene, dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease), dihydrolipoamide branched chain transacylase E2, pyruvate dehydrogenase complex component Y

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2877	5048	D00092	oo		ESTs, Weakly similar to S21766 dihydrolipoamide S-acetyltransferase (EC 2.3.1.12) - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, lipoyl-containing component X; E3-binding protein, RIKEN cDNA 1600017E01 gene, RIKEN cDNA 4930529O08 gene, dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease), dihydrolipoamide branched chain transacylase E2, pyruvate dehydrogenase complex component Y
2881	5049	D10655	m		ESTs, Weakly similar to S21766 dihydrolipoamide S-acetyltransferase (EC 2.3.1.12) - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, lipoyl-containing component X; E3-binding protein, RIKEN cDNA 1600017E01 gene, RIKEN cDNA 4930529O08 gene, dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease), dihydrolipoamide branched chain transacylase E2, pyruvate dehydrogenase complex component Y
3994	12496	NM_053541	kk		ESTs, Weakly similar to S25111 alpha-2-macroglobulin receptor precursor - mouse [M.musculus], expressed sequence A1848829, expressed sequence AL024237, low density lipoprotein receptor-related protein 3, low-density lipoprotein receptor-related protein 10
1288	2947	AF099093	f, kk		ESTs, Weakly similar to S53358 ubiquitin-conjugating enzyme E2.17kB - rat [R.norvegicus], RIKEN cDNA 1100001F19 gene, RIKEN cDNA 1600028I17 gene, prefoldin 5, ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast), ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5), ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, C. elegans)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2317	3862	AI177052	nn, tt		ESTs, Weakly similar to S57968 Ran-binding protein 2 - mouse [M.musculus], Mus musculus, clone IMAGE:4949762, mRNA, partial cds, RAN binding protein 2, nucleoporin 153kD
2338	6315	AI177645	bb		ESTs, Weakly similar to S69890 mitogen inducible gene mig-2 [H.sapiens], Homo sapiens cDNA: FLJ21712 fis, clone COL10231, chromosome 20 open reading frame 42, lysosomal amino acid transporter 1, mitogen inducible 2
4268	737	NM_139093	e, tt		ESTs, Weakly similar to SFR2_MOUSE Splicing factor, arginine/serine-rich 2 (Splicing factor SC35) (SC-35) (Splicing component, 35 kDa) (PR264 protein) [M.musculus], ESTs, Weakly similar to T12483 hypothetical protein DKFZp564B0769.1 [H.sapiens], KIAA1542 protein, RIKEN cDNA 1500011J06 gene, RIKEN cDNA 2610510E10 gene, expressed sequence AA673488, splicing factor, arginine/serine-rich 2, interacting protein
2755	6207	AI236681	gg, hh		ESTs, Weakly similar to SUI5_RAT Sucrase isomaltase, intestinal [Contains: Sucrase ; Isomaltase ] [R.norvegicus], Homo sapiens cDNA FLJ20638 fis, clone KAT02982, highly similar to SUI5_RABIT SUCRASE-ISOMALTASE, Homo sapiens mRNA for FLJ00088 protein, alpha glucosidase 2, alpha neutral subunit, glucosidase, alpha, acid, maltase-glucoamylase (alpha-glucosidase), sucrase-isomaltase
2695	14745	AI234919	bb, mm		ESTs, Weakly similar to SYHUQT multifunctional aminoacyl-tRNA ligase [H.sapiens]
1550	5346	AI043601	gg, hh		ESTs, Weakly similar to T08680 hypothetical protein DKFZp564P0622.1 [H.sapiens], F-box and leucine-rich repeat protein 2, F-box and leucine-rich repeat protein 4, hypothetical protein MGC15482
2732	6976	AI236072	qq		ESTs, Weakly similar to T08680 hypothetical protein DKFZp564P0622.1 [H.sapiens], F-box and leucine-rich repeat protein 2, F-box and leucine-rich repeat protein 4, hypothetical protein MGC15482

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
53	18226	AA799641	u, rr, ss		ESTs, Weakly similar to T46332 hypothetical protein DKFZp434H0413.1 [H.sapiens], Homo sapiens, clone MGC:9709 IMAGE:3850147, mRNA, complete cds, KIAA1253 protein, expressed sequence AW121759, expressed sequence C86123
1238	3710	AA999064	s, t		ESTs, Weakly similar to T47142 hypothetical protein DKFZp761P0724.1 [H.sapiens], KIAA0601 protein, chromosome 20 open reading frame 16
1439	9386	AI012785	c		ESTs, Weakly similar to T47142 hypothetical protein DKFZp761P0724.1 [H.sapiens], KIAA0601 protein, chromosome 20 open reading frame 16
1706	10304	AI060149	b		ESTs, Weakly similar to T48687 hypothetical protein DKFZp761G1923.1 [H.sapiens], phosphatidylinositol 4-kinase type II, phosphatidylinositol 4-kinase type-II beta
965	2175	AA944528	ii		ESTs, Weakly similar to T9S2_MOUSE Transmembrane 9 superfamily protein member 2 precursor [M.musculus], KIAA0255 gene product, chromosome 20 open reading frame 111, expressed sequence AA986553, expressed sequence AU045326, transmembrane 9 superfamily member 2
3597	20803	NM_022592	d, q		ESTs, Weakly similar to TKT_HUMAN TRANSKETOLASE [H.sapiens], RIKEN cDNA 4933401I19 gene, hypothetical protein DKFZp434L1717, transketolase, transketolase (Wernicke-Korsakoff syndrome), transketolase-like 1
2618	14547	AI232431	z, ww		ESTs, Weakly similar to TLP1_MOUSE TATA BOX BINDING PROTEIN-LIKE PROTEIN 1 (TBP-LIKE PROTEIN 1) (21-KDA TBP-LIKE PROTEIN) [M.musculus], TATA box binding protein-like protein, TBP-like 1
1771	16376	AI071866	a, u		ESTs, Weakly similar to TRFL_MOUSE LACTOTRANSFERRIN PRECURSOR [M.musculus], Transferrin, transferrin
4106	17431	NM_054006	rr		ESTs, Weakly similar to UNR PROTEIN [R.norvegicus], Mus musculus, clone MGC:19174 IMAGE:4224466, mRNA, complete cds, NRAS-related gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3997	11843	NM_053555	General		ESTs, Weakly similar to VAM5_HUMAN VESICULE-ASSOCIATED MEMBRANE PROTEIN 5 (VAMP-5) (MYOBREVIN) (HSPC191) [H.sapiens], vesicle-associated membrane protein 5, vesicle-associated membrane protein 5 (myobrevin)
3997	11844	NM_053555	v		ESTs, Weakly similar to VAM5_HUMAN VESICULE-ASSOCIATED MEMBRANE PROTEIN 5 (VAMP-5) (MYOBREVIN) (HSPC191) [H.sapiens], vesicle-associated membrane protein 5, vesicle-associated membrane protein 5 (myobrevin)
3484	51	NM_019335	u		ESTs, Weakly similar to WEE1 MOUSE WEE1-LIKE PROTEIN KINASE [M.musculus], NIMA (never in mitosis gene a)-related expressed kinase 4, eukaryotic translation initiation factor 2 alpha kinase 2, protein kinase, interferon-inducible double stranded RNA dependent
3484	52	NM_019335	u		ESTs, Weakly similar to WEE1 MOUSE WEE1-LIKE PROTEIN KINASE [M.musculus], NIMA (never in mitosis gene a)-related expressed kinase 4, eukaryotic translation initiation factor 2 alpha kinase 2, protein kinase, interferon-inducible double stranded RNA dependent
1034	21410	AA946408	c		eukaryotic translation elongation factor 1 epsilon 1
3488	4592	NM_019356	h		eukaryotic translation initiation factor 2, subunit 1 (alpha, 35kD ), eukaryotic translation initiation factor 2A
2283	2993	AI176492	j, II		eukaryotic translation initiation factor 3, subunit 2 (beta, 36kD)
2404	21631	AI179125	s		eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD)
357	19269	AA851785	General		eukaryotic translation initiation factor 3, subunit 8 (110kD)
3976	6186	NM_053430	ii		excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)), excision repair cross-complementing rodent repair deficiency, complementation group 5, exonuclease 1, flap structure specific endonuclease 1, flap structure-specific endonuclease 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1273	17597	AF051943	oo		expressed in non-metastatic cells 6, protein (nucleoside diphosphate kinase), non-metastatic cells 5, protein expressed in (nucleoside-diphosphate kinase), nucleoside diphosphate kinase type 6 (inhibitor of p53-induced apoptosis-alpha)
1273	17598	AF051943	oo		expressed in non-metastatic cells 6, protein (nucleoside diphosphate kinase), non-metastatic cells 5, protein expressed in (nucleoside-diphosphate kinase), nucleoside diphosphate kinase type 6 (inhibitor of p53-induced apoptosis-alpha)
1590	18422	AI044827	e		expressed sequence AI195023, nitrilase 1
3207	24718	NM_013003	lt		expressed sequence AI255394, phosphatidylethanolamine N-methyltransferase
1010	22639	AA945746	t		expressed sequence AI314760, expressed sequence AL022777, suppressor of Ty 4 homolog (S. cerevisiae), suppressor of Ty 4 homolog 1 (S. cerevisiae), suppressor of Ty 4 homolog 2 (S. cerevisiae)
2994	19256	M15562	xx		expressed sequence AI323765, histocompatibility 2, class II antigen E alpha, major histocompatibility complex, class II, DR alpha
2578	4703	AI231606	k, r		expressed sequence AI413471, hypothetical protein FLJ11838
4083	15706	NM_053921	u		expressed sequence AI451906, peroxisomal biogenesis factor 12
4100	16809	NM_053990	l, oo		expressed sequence AI462446, protein tyrosine phosphatase, non-receptor type 2
1170	3054	AA996899	gg, hh		expressed sequence AI504642, spermatogenesis associated 2
4211	14876	NM_134361	h		expressed sequence AI661682, small inducible cytokine subfamily C, member 1 (lymphotactin), small inducible cytokine subfamily C, member 2
3229	19335	NM_013067	x, dd		expressed sequence AU018702, ribophorin I
266	320	AA819905	ee		expressed sequence AU022220, stearoyl-CoA desaturase (delta-9-desaturase), stearoyl-Coenzyme A desaturase 1, stearoyl coenzyme A desaturase 3
3911	1302	NM_031841	pp		expressed sequence AU022220, stearoyl-CoA desaturase (delta-9-desaturase), stearoyl-Coenzyme A desaturase 1, stearoyl coenzyme A desaturase 3

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4279	1301	NM_139192	n		expressed sequence AU022220, stearoyl-CoA desaturase (delta-9-desaturase), stearoyl-Coenzyme A desaturase 1, stearoyl coenzyme A desaturase 3
4027	21637	NM_053653	kk		expressed sequence AW228853, vascular endothelial growth factor C
4182	5686	NM_133428	dd		expressed sequence AW413091, fetuin B, fetuin beta, histidine-rich glycoprotein
575	16023	AA891872	w		expressed sequence BB168308, nicotinamide nucleotide transhydrogenase
4141	23477	NM_080891	w		Fas death domain-associated protein, death-associated protein 6
2462	22366	AI227743	tt		FAST kinase, Fas-activated serine/threonine kinase, RIKEN cDNA 2310010B21 gene, cell cycle progression 2 protein
2252	19004	AI175875	ii		fatty acid binding protein 5 (psoriasis-associated), fatty acid binding protein 5, epidermal
2276	19006	AI176393	f		fatty acid binding protein 5 (psoriasis-associated), fatty acid binding protein 5, epidermal
4308	20740	NM_145878	bb, pp		fatty acid binding protein 5 (psoriasis-associated), fatty acid binding protein 5, epidermal
3413	24247	NM_017332	n, rr		fatty acid synthase, hypothetical protein FLJ20604
4088	15822	NM_053957	General		FE65-like protein 2, Mus musculus, Similar to amyloid beta (A4) precursor protein-binding, family B, member 3, clone MGC:38710 IMAGE:5357681, mRNA, complete cds, RIKEN cDNA 2810468K05 gene, amyloid beta (A4) precursor protein-binding, family B, member 1, amyloid beta (A4) precursor protein-binding, family B, member 2
1565	7935	AI043945	General		ferrochelatase, ferrochelatase (protoporphyrin)
4079	1337	NM_053895	p, tt		FGF receptor activating protein 1, Mus musculus, Similar to FGF receptor activating protein 1, clone MGC:8108 IMAGE:3588752, mRNA, complete cds
1191	3250	AA997765	n		fibrillin 1, fibrillin 1 (Marfan syndrome), fibulin 2
71	11531	AA799773	d		filamin A, alpha (actin binding protein 280)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2762	17618	AI236786	p, rr		FK506 binding protein 10 (65 kDa), FK506 binding protein 1A (12kD), FK506 binding protein 1a (12 kDa), FK506 binding protein 2 (13 kDa), FK506 binding protein 2 (13kD), FK506 binding protein 4 (59 kDa), FK506 binding protein 5 (51 kDa), FK506 binding protein 9
2876	20519	C06598	v, w		FK506 binding protein 1A (12kD), FK506 binding protein 1a (12 kDa), FK506 binding protein 2 (13 kDa), FK506 binding protein 2 (13kD), FK506 binding protein 4 (59 kDa), FK506 binding protein 5 (51 kDa)
2016	13090	AI136977	m, ll		FK506 binding protein 4 (59kD), RIKEN cDNA 4930571K23 gene
2016	13091	AI136977	v		FK506 binding protein 4 (59kD), RIKEN cDNA 4930571K23 gene
2575	13092	AI231547	oo		FK506 binding protein 4 (59kD), RIKEN cDNA 4930571K23 gene
3776	1963	NM_031236	xx		fucosyltransferase 1, fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, Bombay phenotype included)
3134	13731	NM_012755	bb		FYN oncogene related to SRC, FGR, YES, Fyn proto-oncogene
3883	1105	NM_031758	nn		G protein-coupled receptor 24
3414	2000	NM_017333	g		G protein-coupled receptor 37-like 1, endothelin receptor type B
3277	18313	NM_013220	x		GA binding protein transcription factor, beta subunit 1 (53kD), GA binding protein transcription factor, beta subunit 2 (47kD), Homo sapiens cDNA FLJ32449 fis, clone SKMUS2001662, moderately similar to Oryctolagus cuniculus CARP mRNA, RIKEN cDNA 1700012M14 gene, RIKEN cDNA 4933432B13 gene, ankyrin repeat domain 2 (stretch responsive muscle), ankyrin repeat domain 5, cardiac ankyrin repeat protein, cardiac responsive adriamycin protein
1076	24289	AA955986	t		galactokinase, galactokinase.1
2438	23989	AI179953	ii, ss		gap junction protein, beta 2, 26kD (connexin 26)
4423	23987	X51615	w, gg, hh		gap junction protein, beta 2, 26kD (connexin 26)



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2429	16656	AI179634	h		GASZ, Gasz, Mus musculus, Similar to hypothetical protein DKFZp564O043, clone MGC:36949 IMAGE:4946879, mRNA, complete cds, Mus musculus, Similar to regulatory factor X-associated ankyrin-containing protein, clone MGC:13787 IMAGE:4190691, mRNA, complete cds, RIKEN cDNA 4933400N19 gene, kinase D-interacting substance of 220 kDa, regulatory factor X-associated ankyrin-containing protein
1336	15452	AI009484	s		gelsolin, gelsolin (amyloidosis, Finnish type)
2722	24373	AI235748	l, y, ee, rr		gene predicted from cDNA with a complete coding sequence
3725	1336	NM_031042	k		general transcription factor IIF, polypeptide 2 (30kD subunit)
1806	9399	AI072812	a		glioma-amplified sequence-41
3877	13543	NM_031749	q, oo		glucosidase 1, glucosidase I
3877	13544	NM_031749	c		glucosidase 1, glucosidase I
3877	13545	NM_031749	e		glucosidase 1, glucosidase I
3877	25209	NM_031749	v, w, bb, rr		glucosidase 1, glucosidase I
1508	7451	AI029450	l, z, General		glutamyl-prolyl-tRNA synthetase
2717	20140	AI235566	g		glutamyl-prolyl-tRNA synthetase
2689	16781	AI234527	ll, qq		glutathione S-transferase A4, glutathione S-transferase, alpha 4
4449	16780	X62660	b, m, qq, vv		glutathione S-transferase A4, glutathione S-transferase, alpha 4
3973	6773	NM_053410	rr		glyceronephosphate O-acyltransferase
4051	6004	NM_053796	rr		glycoprotein A33 (transmembrane), junction cell adhesion molecule 2, junction cell adhesion molecule 3, junction cell adhesion molecule1, junctional adhesion molecule 1, junctional adhesion molecule 3
4051	6005	NM_053796	a, q, s		glycoprotein A33 (transmembrane), junction cell adhesion molecule 2, junction cell adhesion molecule 3, junction cell adhesion molecule1, junctional adhesion molecule 1, junctional adhesion molecule 3
1907	2297	AI103602	General		GM2 ganglioside activator protein
1995	2296	AI112979	q, x, General		GM2 ganglioside activator protein
2563	2299	AI231094	w		GM2 ganglioside activator protein
4210	606	NM_134352	f, kk, tt		GPI-anchored metastasis-associated protein homolog, plasminogen activator, urokinase receptor, urokinase plasminogen activator receptor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1055	23542	AA955389	pp		GRB2-related adaptor protein, GRB2-related adaptor protein 2, NCK adaptor protein 1, SH3 domain protein 3, Sh3 domain YSC-like 1, growth factor receptor bound protein 2, growth factor receptor-bound protein 2, monocytic adaptor
3692	18728	NM_030846	b, ww		GRB2-related adaptor protein, GRB2-related adaptor protein 2, SH3 domain protein 3, Sh3 domain YSC-like 1, growth factor receptor bound protein 2, growth factor receptor-bound protein 2, monocytic adaptor
3692	18023	NM_030846	k		GRB2-related adaptor protein, GRB2-related adaptor protein 2, SH3 domain protein 3, Sh3 domain YSC-like 1, growth factor receptor bound protein 2, growth factor receptor-bound protein 2, monocytic adaptor
4109	16043	NM_057100	jj		growth arrest specific 6, growth arrest-specific 6
3888	14184	NM_031776	j		guanine deaminase
3888	14185	NM_031776	j, r, y		guanine deaminase
3723	15886	NM_031035	k, nn		guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2, guanine nucleotide binding protein, alpha inhibiting 2, guanine nucleotide binding protein, alpha inhibiting 3
2453	7460	A180413	r		H factor (complement)-like 1, H factor (complement)-like 2, complement factor H related 3
4420	7459	X15551	a, j, n, r		H factor (complement)-like 1, H factor (complement)-like 2, complement factor H related 3
4150	3579	NM_130409	uu		H factor (complement)-like 3, H factor 1 (complement), Mus musculus, clone MGC:30368 IMAGE:5135798, mRNA, complete cds, coagulation factor XIII, beta subunit, complement component factor h, complement factor H-related 4, expressed sequence A194696, seizure related gene 6
3676	2733	NM_024385	bb, jj		H2.0-like homeo box gene, hematopoietically expressed homeobox, homeo box 11-like 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2030	18943	AI137495	d, ll		H2A histone family, member C, H2A histone family, member D, H2A histone family, member I, H2A histone family, member L, H2A histone family, member N, H2A histone family, member O, Homo sapiens, clone MGC:21597 IMAGE:4511035, mRNA, complete cds, Mus musculus, similar to H2A histone family, member O, clone MGC:36202 IMAGE:5055276, mRNA, complete cds, expressed sequence R75370
3537	18839	NM_021840	g		H2A histone family, member M, RIKEN cDNA 1700012L04 gene, RIKEN cDNA 1700113O17 gene
655	20065	AA892647	c		H4 histone family, member D, H4 histone family, member H, H4 histone family, member I, H4 histone family, member J, H4 histone family, member K, Mus musculus, H4 histone family, member A, clone MGC:30488 IMAGE:4205460, mRNA, complete cds, histone 4 protein
3614	20506	NM_022686	ii		H4 histone family, member D, H4 histone family, member H, H4 histone family, member I, H4 histone family, member J, H4 histone family, member K, Mus musculus, H4 histone family, member A, clone MGC:30488 IMAGE:4205460, mRNA, complete cds, histone 4 protein
3669	8879	NM_024360	u		hairy and enhancer of split 1, (Drosophila), hairy and enhancer of split 6, (Drosophila), hairy homolog (Drosophila), hairy/enhancer-of-split related with YRPW motif 2, hairy/enhancer-of-split related with YRPW motif-like
3520	18544	NM_021592	e		heart and neural crest derivatives expressed 1, heart and neural crest derivatives expressed transcript 1, mesoderm posterior 1, nescient helix loop helix 1
4221	14697	NM_134419	dd		heat shock 27 kDa associated protein
2197	9537	AI172097	y		heat shock factor 1, heat shock transcription factor 1
1254	23417	AB022209	I, General, kk		heterogeneous nuclear ribonucleoprotein F
2711	15858	AI235455	rr		hexosaminidase B, hexosaminidase B (beta polypeptide)
4399	23282	U90725	q, ff, tt		high density lipoprotein binding protein (vigilin)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
685	3381	AA892993	jj		high mobility group 20 B, high-mobility group 20B
2725	14768	AI235912	f		highly charged protein
149	21379	AA800738	ll		HIV-1 Tat interactive protein, 60 kD, histone acetyltransferase MYST1, member of MYST family histone acetyl transferases, homolog of Drosophila MOF
301	14608	AA849805	j, ss		HLA-B associated transcript 5
2557	8036	AI230884	c, tt		HIMBA-inducible
1493	23530	AI014148	t, w		Homo sapiens cDNA FLJ10183 fis, clone HEMBA1004276, highly similar to Homo sapiens AP-4 adaptor complex beta4 subunit mRNA, adaptor-related protein complex 2, beta 1 subunit, adaptor-related protein complex 4, beta 1 subunit, adaptor-related protein complex AP-4, beta 1
839	4944	AA924405	h		Homo sapiens cDNA FLJ11845 fis, clone HEMBA1006674, Mus musculus, Similar to hypothetical protein FLJ10350, clone MGC:27585 IMAGE:4489521, mRNA, complete cds, Mus musculus, Similar to neurofilament, heavy polypeptide (200kD), clone MGC:32399 IMAGE:5037953, mRNA, complete cds, nucleolar protein 5A (56kD with KKE/D repeat)
2253	7647	AI175991	d		Homo sapiens cDNA FLJ12241 fis, clone MAMMA1001274, Homo sapiens, clone IMAGE:3343171, mRNA, partial cds; Homo sapiens, clone IMAGE:3961549, mRNA, partial cds, MCM3 minichromosome maintenance deficient 3 (S. cerevisiae) associated protein, RIKEN cDNA 2410004C24 gene, expressed sequence AW049671, hypothetical protein FLJ10508, minichromosome maintenance deficient (S. cerevisiae) 3-associated protein
2268	12999	AI176276	General		Homo sapiens cDNA FLJ12570 fis, clone NT2RM4000895
3279	1567	NM_013223	p, s		Homo sapiens cDNA FLJ14016 fis, clone HEMBA1000459, Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone:4833426L05:eukaryotic translation initiation factor 2 alpha kinase 1, full insert sequence, eukaryotic translation initiation factor 2 alpha kinase 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1398	3941	AI011598	xx		Homo sapiens cDNA FLJ14042 fis, clone HEMBA1006038, weakly similar to LAMININ ALPHA-5 CHAIN, expressed sequence AA408762, expressed sequence AI853660, laminin, alpha 5
4249	17530	NM_138877	s		Homo sapiens cDNA FLJ14413 fis, clone HEMBA1004670, RIKEN cDNA 1500005G05 gene, cytochrome b5 reductase 1 (B5R.1), cytochrome b5 reductase b5R.2, diaphorase (NADH) (cytochrome b-5 reductase), diaphorase 1 (NADH)
4249	17532	NM_138877	I, z, General, nn		Homo sapiens cDNA FLJ14413 fis, clone HEMBA1004670, RIKEN cDNA 1500005G05 gene, cytochrome b5 reductase 1 (B5R.1), cytochrome b5 reductase b5R.2, diaphorase (NADH) (cytochrome b-5 reductase), diaphorase 1 (NADH)
4249	17533	NM_138877	General, gg, hh, ll		Homo sapiens cDNA FLJ14413 fis, clone HEMBA1004670, RIKEN cDNA 1500005G05 gene, cytochrome b5 reductase 1 (B5R.1), cytochrome b5 reductase b5R.2, diaphorase (NADH) (cytochrome b-5 reductase), diaphorase 1 (NADH)
4249	25039	NM_138877	General, ss		Homo sapiens cDNA FLJ14413 fis, clone HEMBA1004670, RIKEN cDNA 1500005G05 gene, cytochrome b5 reductase 1 (B5R.1), cytochrome b5 reductase b5R.2, diaphorase (NADH) (cytochrome b-5 reductase), diaphorase 1 (NADH)
2813	18504	AI639044	cc		Homo sapiens cDNA FLJ20201 fis, clone COLF1210, Mus musculus, Similar to oculospanin, clone MGC:28508 IMAGE:4189407, mRNA, complete cds, Mus musculus, clone MGC:36554 IMAGE:4954874, mRNA, complete cds, RIKEN cDNA 1300010A20 gene, RIKEN cDNA 2210021G21 gene, tetraspan 5, transmembrane 4 superfamily member 9
1462	7258	AI013475	h		Homo sapiens cDNA FLJ20750 fis, clone HEP05174, RIKEN cDNA 6330404A12 gene, VPS10 domain receptor protein SORCS 2, sortilin 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
28	19675	AA799475	s, oo		Homo sapiens cDNA FLJ25124 fis, clone CBR06414, Homo sapiens cDNA FLJ32645 fis, clone SYNOV2001251, retinoic acid induced 14, uveal autoantigen with coiled-coil domains and ankyrin repeats
3941	4723	NM_033235	j, ll, qq		Homo sapiens cDNA FLJ25341 fis, clone TST00973, malate dehydrogenase 1, NAD (soluble), malate dehydrogenase, soluble
3941	4724	NM_033235	j		Homo sapiens cDNA FLJ25341 fis, clone TST00973, malate dehydrogenase 1, NAD (soluble), malate dehydrogenase, soluble
4009	20896	NM_053592	w, x, bb		Homo sapiens cDNA FLJ25344 fis, clone TST01087, RIKEN cDNA 5031412I06 gene
388	6440	AA859130	w, pp		Homo sapiens cDNA FLJ30116 fis, clone BRACE1000042, weakly similar to PROTEIN PHOSPHATASE 2C ABI2 (EC 3.1.3.16), Homo sapiens cDNA FLJ30553 fis, clone BRAWH2003689, highly similar to Mus musculus clone mouse1-9 putative protein phosphatase type 2C mRNA, Homo sapiens cDNA FLJ32332 fis, clone PROST2005121, weakly similar to PROBABLE PROTEIN PHOSPHATASE 2C T23F11.1 (EC 3.1.3.16), KIAA0015 gene product, expressed sequence AI481720, protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform
2928	4378	H32966	y		Homo sapiens cDNA FLJ30124 fis, clone BRACE1000093, highly similar to TNF RECEPTOR ASSOCIATED FACTOR 2, Tnf receptor-associated factor 2
463	15182	AA874832	ff		Homo sapiens cDNA FLJ30217 fis, clone BRACE2001709, highly similar to Homo sapiens anaphase-promoting complex subunit 5 (APC5) mRNA, anaphase promoting complex subunit 5
1111	15183	AA963036	l		Homo sapiens cDNA FLJ30217 fis, clone BRACE2001709, highly similar to Homo sapiens anaphase-promoting complex subunit 5 (APC5) mRNA, anaphase promoting complex subunit 5

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1817	20834	AI073056	cc		Homo sapiens cDNA FLJ30312 fis, clone BRACE2003512, Mus musculus, clone IMAGE:3375769, mRNA, partial cds, Mus musculus, clone MGC:28837 IMAGE:4506646, mRNA, complete cds, RIKEN cDNA 1200014P03 gene, RIKEN cDNA 1300001I01 gene, RIKEN cDNA 1300003O07 gene, RIKEN cDNA 3632410F03 gene, kinesin 2 (60-70kD), kinesin light chain 2
3029	20836	M75148	I, General, qq		Homo sapiens cDNA FLJ30312 fis, clone BRACE2003512, Mus musculus, clone IMAGE:3375769, mRNA, partial cds, Mus musculus, clone MGC:28837 IMAGE:4506646, mRNA, complete cds, RIKEN cDNA 1200014P03 gene, RIKEN cDNA 1300001I01 gene, RIKEN cDNA 1300003O07 gene, RIKEN cDNA 3632410F03 gene, kinesin 2 (60-70kD), kinesin light chain 2
2242	18562	AI175515	s		Homo sapiens cDNA FLJ30615 fis, clone CTONG2001226, moderately similar to LYSOSOMAL PROTECTIVE PROTEIN PRECURSOR (EC 3.4.16.5), carboxypeptidase, vitellogenic-like, likely homolog of rat and mouse retinoid-inducible serine carboxypeptidase
3634	15696	NM_022939	e		Homo sapiens cDNA FLJ31164 fis, clone KIDNE1000104, weakly similar to SYNTAXIN 7, expressed sequence AU041521, syntaxin 12, syntaxin 16, syntaxin 7
505	15410	AA875268	r		Homo sapiens cDNA FLJ31499 fis, clone NT2NE2005441, weakly similar to SPLICEOSOME ASSOCIATED PROTEIN 49
3228	675	NM_013066	g		Homo sapiens cDNA FLJ31586 fis, clone NT2RI2002211, microtubule-associated protein 2, transformation related protein 53 binding protein 1
4458	602	X68101	bb		Homo sapiens cDNA FLJ32122 fis, clone PEBLM1000144, moderately similar to Trg, KIAA1058 protein, erythroid differentiation regulator, expressed sequence AA959601, expressed sequence R75174
4280	22595	NM_139253	d		Homo sapiens cDNA FLJ32237 fis, clone PLACE6004966, Human transposon-like element mRNA

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3445	18362	NM_019187	n, ff		Homo sapiens cDNA FLJ32393 fis, clone SKMUS2000074, highly similar to Homo sapiens methyltransferase COQ3 mRNA
4391	3387	U75411	cc		Homo sapiens cDNA FLJ32612 fis, clone STOMA2000088, highly similar to IG LAMBDA CHAIN C REGIONS, RIKEN cDNA 2010309G21 gene
403	23340	AA859519	jj		Homo sapiens cDNA FLJ32971 fis, clone TESTI2008847
403	23341	AA859519	bb		Homo sapiens cDNA FLJ32971 fis, clone TESTI2008847
2159	14941	AI171196	pp		Homo sapiens cDNA: FLJ21205 fis, clone COL00328, integral inner nuclear membrane protein
2907	21864	H31144	pp		Homo sapiens cDNA: FLJ21251 fis, clone COL01259, Homo sapiens, Similar to activated p21cdc42Hs kinase, clone MGC:15139 IMAGE:4302390, mRNA, complete cds
2907	20456	H31144	ll, pp		Homo sapiens cDNA: FLJ21251 fis, clone COL01259, Homo sapiens, Similar to activated p21cdc42Hs kinase, clone MGC:15139 IMAGE:4302390, mRNA, complete cds
4012	11830	NM_053598	General		Homo sapiens cDNA: FLJ22642 fis, clone HSI06970, RIKEN cDNA 4933436C10 gene, nudix (nucleoside diphosphate linked moiety X)-type motif 3, nudix (nucleotide diphosphate linked moiety X)-type motif 3
4012	18795	NM_053598	bb		Homo sapiens cDNA: FLJ22642 fis, clone HSI06970, RIKEN cDNA 4933436C10 gene, nudix (nucleoside diphosphate linked moiety X)-type motif 3, nudix (nucleotide diphosphate linked moiety X)-type motif 3
4012	23192	NM_053598	a, pp		Homo sapiens cDNA: FLJ22642 fis, clone HSI06970, RIKEN cDNA 4933436C10 gene, nudix (nucleoside diphosphate linked moiety X)-type motif 3, nudix (nucleotide diphosphate linked moiety X)-type motif 3
792	21649	AA900351	l, uu		Homo sapiens cDNA: FLJ22696 fis, clone HSI11696, RIKEN cDNA 3930402F23 gene



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1494	15247	AI014169	o, ii, ll, pp, xx		Homo sapiens cDNA: FLJ22783 fis, clone KAIA1993, Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 703547, Homo sapiens mRNA; cDNA DKFZp434B102 (from clone DKFZp434B102). KIAA1376 protein
2789	15248	AI237654	nn, xx		Homo sapiens cDNA: FLJ22783 fis, clone KAIA1993, Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 703547, Homo sapiens mRNA; cDNA DKFZp434B102 (from clone DKFZp434B102). KIAA1376 protein
4231	15054	NM_138515	p		Homo sapiens cDNA: FLJ22845 fis, clone KAIA5195, cytochrome P450, 2d22, cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing). polypeptide 6
1245	16304	AB008424	e, j		Homo sapiens cDNA: FLJ22845 fis, clone KAIA5195, Mus musculus, Similar to cytochrome P450, 2d10, clone MGC:18824 IMAGE:4207630, mRNA, complete cds, cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing). polypeptide 6
2349	1131	AI177919	nn, pp, ww		Homo sapiens cDNA: FLJ22845 fis, clone KAIA5195, Mus musculus, Similar to cytochrome P450, 2d10, clone MGC:18824 IMAGE:4207630, mRNA, complete cds, cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing). polypeptide 6
4320	1130	NM_153313	a, cc		Homo sapiens cDNA: FLJ22845 fis, clone KAIA5195, Mus musculus, Similar to cytochrome P450, 2d10, clone MGC:18824 IMAGE:4207630, mRNA, complete cds, cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing). polypeptide 6
3124	18730	NM_012730	a, j		Homo sapiens cDNA: FLJ22845 fis, clone KAIA5195, RIKEN cDNA 1300006E06 gene, cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing). polypeptide 6

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
607	3427	AA892246	nn		Homo sapiens clone IMAGE:1963178, mRNA sequence, Mst3 and SOK1-related kinase, Mus musculus, Similar to serine/threonine kinase 24 (Ste20, yeast homolog), clone MGC:6330 IMAGE:3482980, mRNA, complete cds, RIKEN cDNA 2610018G03 gene, expressed sequence A1042849, mitogen-activated protein kinase kinase kinase kinase 5, serine/threonine kinase 25 (yeast)
969	22471	AA944617	bb		Homo sapiens mRNA for FLJ00235 protein, chromosome 21 open reading frame 2, hypothetical protein FLJ10565
3978	23811	NM_053436	ww		Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 117929, TAR (HIV) RNA binding protein 2, protein kinase, interferon inducible double stranded RNA dependent activator, protein kinase, interferon-inducible double stranded RNA dependent activator, staufer (RNA binding protein) homolog 1 (Drosophila), staufer (RNA binding protein) homolog 2 (Drosophila), staufer, RNA binding protein (Drosophila), staufer, RNA binding protein, homolog 2 (Drosophila)
830	4917	AA924140	p		Homo sapiens mRNA; cDNA DKFZp566P2324 (from clone DKFZp566P2324), Homo sapiens, clone MGC:21553 IMAGE:4155396, mRNA, complete cds, KIAA0193 gene product, hypothetical protein BC002980, hypothetical protein FLJ23142
1869	2972	A1102606	ss		Homo sapiens NADH dehydrogenase ubiquinone 1 alpha subcomplex mRNA, complete cds, NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10 (42kD)
980	23423	AA944912	dd		Homo sapiens NAG11 (NAG11) mRNA, complete cds, hypothetical protein FLJ20105, hypothetical protein from EUROIMAGE 2005326
4275	18108	NM_139105	l, w, General, uu, vv		Homo sapiens PP1579 mRNA, complete cds, Mus musculus, clone MGC:6299 IMAGE:2654341, mRNA, complete cds, expressed sequence AW546468, expressed sequence C80305, ribonuclease/angiogenin inhibitor

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2917	17913	H31707	l, x, General, dd, uu		Homo sapiens, clone IMAGE:3940519, mRNA, partial cds, hypothetical protein DKFZp762O076
436	23346	AA859983	c		Homo sapiens, clone MGC:12617 IMAGE:2964706, mRNA, complete cds, cyclin M3, cyclin M4
440	23347	AA860015	c		Homo sapiens, clone MGC:12617 IMAGE:2964706, mRNA, complete cds, cyclin M3, cyclin M4
3606	21211	NM_022607	t, nn		Homo sapiens, clone MGC:12790 IMAGE:4302265, mRNA, complete cds, NADH dehydrogenase (ubiquinone) flavoprotein 3 (10kD), nucleolar and coiled-body phosphoprotein 1
968	17948	AA944581	f		Homo sapiens, clone MGC:15307 IMAGE:4135946, mRNA, complete cds
2576	19271	AI231566	f, q, pp, ww		Homo sapiens, clone MGC:18164 IMAGE:4155088, mRNA, complete cds
1775	8665	AI071965	ee		Homo sapiens, clone MGC:25063 IMAGE:4480702, mRNA, complete cds
589	16836	AA892005	r		Homo sapiens, clone MGC:32124 IMAGE:4877960, mRNA, complete cds, RIKEN cDNA 1110060M21 gene, RIKEN cDNA 4631434O19 gene, progesterone receptor membrane component 1, progesterone receptor membrane component 2
2375	11374	AI178672	k		Homo sapiens, clone MGC:8769 IMAGE:3860953, mRNA, complete cds
2861	20468	AI639494	m		Homo sapiens, clone MGC:8769 IMAGE:3860953, mRNA, complete cds
3632	2006	NM_022936	o, xx		Homo sapiens, clone MGC:9645 IMAGE:3922910, mRNA, complete cds, RIKEN cDNA 2310063B19 gene, epoxide hydrolase 2, cytoplasmic, hypothetical protein FLJ11743, hypothetical protein FLJ22408
3632	2007	NM_022936	o, s		Homo sapiens, clone MGC:9645 IMAGE:3922910, mRNA, complete cds, RIKEN cDNA 2310063B19 gene, epoxide hydrolase 2, cytoplasmic, hypothetical protein FLJ11743, hypothetical protein FLJ22408
3632	2008	NM_022936	o, s, xx		Homo sapiens, clone MGC:9645 IMAGE:3922910, mRNA, complete cds, RIKEN cDNA 2310063B19 gene, epoxide hydrolase 2, cytoplasmic, hypothetical protein FLJ11743, hypothetical protein FLJ22408

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3632	2009	NM_022936	n, o		Homo sapiens, clone MGC:9645-IMAGE:3922910, mRNA, complete cds, RIKEN cDNA 2310063B19 gene, epoxide hydrolase 2, cytoplasmic, hypothetical protein FLJ11743, hypothetical protein FLJ22408
3403	20583	NM_017306	k, nn		Homo sapiens, Similar to dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), clone MGC:3903 IMAGE:3630566, mRNA, complete cds
1909	13317	AI103637	ee		Homo sapiens, Similar to protein kinase NYD-SP25, clone MGC:26757 IMAGE:4828082, mRNA, complete cds, RIKEN cDNA 2810411G23 gene, tumor protein D52-like 2
3601	20960	NM_022598	a		Homo sapiens, Similar to RIKEN cDNA 4930513O09 gene, clone MGC:33185 IMAGE:5269882, mRNA, complete cds, Mus musculus, Similar to hypothetical protein DKFZp761J139, clone MGC:11924 IMAGE:3599595, mRNA, complete cds, RIKEN cDNA 4930513O09 gene, cellular nucleic acid binding protein, zinc finger protein 9 (a cellular retroviral nucleic acid binding protein)
1038	18383	AA946421	m		Homo sapiens, Similar to transcription factor EB, clone IMAGE:3944945, mRNA, partial cds
2061	15399	AI145451	oo		homolog of yeast mRNA transport regulator 3
2483	22455	AI228524	s		HSPC230 gene, RIKEN cDNA 1700021F05 gene
4244	1896	NM_138840	g		HTGN29 protein, trans-golgi network protein 1, trans-golgi network protein 2
4244	1899	NM_138840	w		HTGN29 protein, trans-golgi network protein 1, trans-golgi network protein 2
40	16959	AA799550	u		Human putative ribosomal protein S1 mRNA, RIKEN cDNA 9130413I22 gene, T-cell activation protein, hypothetical protein BC006130
3080	17292	NM_012584	General, cc		hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1, hydroxysteroid dehydrogenase-4, delta<5>-3-beta, hydroxysteroid dehydrogenase-5, delta<5>-3-beta
1433	12475	AI012632	c		hypothetical protein BC000919

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
566	11966	AA891800	w		hypothetical protein BC008246, inorganic pyrophosphatase, pyrophosphatase (inorganic)
1153	2583	AA965166	u, mm		hypothetical protein BC008246, inorganic pyrophosphatase, pyrophosphatase (inorganic)
4297	6731	NM_145096	c		hypothetical protein DKFZp667O2416, hypothetical protein FLJ20984, leukocyte receptor cluster (LRC) member 4, zinc finger, DHHC domain containing 7, zinc finger, DHHC domain containing 9
2100	16727	AI169287	z, General, kk		hypothetical protein DKFZp761C169, hypothetical protein SP192
2513	23563	AI229421	pp		hypothetical protein FLJ10074
1990	23099	AI112365	y, nn, ww		hypothetical protein FLJ10292, mago-nashi homolog, proliferation-associated (Drosophila)
2178	17746	AI171615	ss		hypothetical protein FLJ10402
2535	4662	AI230215	ll		hypothetical protein FLJ10468
609	22903	AA892250	h, q, dd		hypothetical protein FLJ10514
1703	8132	AI060050	p, bb		hypothetical protein FLJ10613, hypothetical protein FLJ12595, nucleolar GTPase, putative nucleotide binding protein, estradiol-induced
1054	17191	AA955382	c		hypothetical protein FLJ10637
240	7208	AA819337	t, mm, qq		hypothetical protein FLJ10856
299	18876	AA849790	u		hypothetical protein FLJ11773
4284	7859	NM_139328	kk		hypothetical protein FLJ13291
1710	4337	AI060281	ll		hypothetical protein FLJ13798, hypoxia-inducible factor 1, alpha subunit inhibitor
2523	2688	AI229793	k, s		hypothetical protein FLJ20010
2832	18533	AI639231	g		hypothetical protein FLJ20333, hypothetical protein HSPC226
115	22918	AA800243	o, p, w, ii, rr		hypothetical protein FLJ20871 similar to FSP27
1062	23278	AA955553	l		hypothetical protein IMAGE3455200
1325	22801	AI009197	a		hypothetical protein IMAGE3455200
702	3879	AA893237	t, cc, xx		hypothetical protein MBC3205
336	19187	AA851230	General, pp		hypothetical protein MGC11102
51	20980	AA799633	dd, oo		hypothetical protein MGC13016
392	15148	AA859325	w		hypothetical protein MGC14151
241	17024	AA819356	j		hypothetical protein MGC15677
2646	11507	AI233222	ee		hypothetical protein MGC2803
915	9942	AA942697	y		hypothetical protein MGC3133
561	17271	AA891759	a, s		hypothetical protein MGC4308
120	17206	AA800296	u		hypothetical protein MGC5378, poly(A) polymerase beta (testis specific)
4212	12719	NM_134373	i, uu		hypothetical protein PP5395
4205	15655	NM_133621	nn		hypothetical protein SMAP31

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3688	17916	NM_024488	g, q		hypothetical protein, MGC:8303, likely ortholog of rat CDK5 activator-binding protein C53
4055	16921	NM_053806	gg, hh, jj		hypoxanthine guanine phosphoribosyl transferase, hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)
637	11994	AA892507	h		immature colon carcinoma transcript 1
2257	1587	AI176063	ii		inositol polyphosphate-5-phosphatase, 72 kDa
3020	1586	M57728	oo, pp		inositol polyphosphate-5-phosphatase, 72 kDa
3135	15174	NM_012756	j, ss		insulin-like growth factor 2 receptor
3252	16982	NM_013144	f, r, z, ee, ff, rr		insulin-like growth factor binding protein 1
2778	23076	AI237388	q, dd		interferon-related developmental regulator 1, interferon-related developmental regulator 2
3194	709	NM_012968	h		interleukin 1 receptor accessory protein-like 2, interleukin 1 receptor accessory protein, interleukin 18 receptor 1, interleukin 18 receptor accessory protein, single Ig IL-1 receptor related protein
2387	4279	AI178808	k		interleukin 2 receptor, gamma (severe combined immunodeficiency), interleukin 2 receptor, gamma chain
271	23759	AA848402	u		interleukin enhancer binding factor 2, 45kD, spermatid perinuclear RNA binding protein
3415	25515	NM_017339	g		ISL1 transcription factor, LIM/homeodomain, (islet-1)
1161	2809	AA996471	p		JM11 protein
2700	15034	AI235054	s		JM5 protein, Mus musculus, Similar to hypothetical protein FLJ10055, clone MGC:36416 IMAGE:5322999, mRNA, complete cds, RIKEN cDNA 0610008N23 gene
69	16730	AA799766	l		JTV1 gene
525	5384	AA891041	vv		Jun-B oncogene, jun B proto-oncogene
3536	20161	NM_021836	oo		Jun-B oncogene, jun B proto-oncogene
3727	1731	NM_031047	tt		junction plakoglobin
3889	1184	NM_031778	cc		K+ voltage-gated channel, subfamily S, 2, potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3
996	7683	AA945320	a		karyopherin (importin) alpha 3, karyopherin alpha 3 (importin alpha 4)
1387	4203	AI011082	j		karyopherin (importin) alpha 3, karyopherin alpha 3 (importin alpha 4)
462	16042	AA874827	cc		KIAA0008 gene product

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
423	19486	AA859870	l, nn		KIAA0063 gene product, hypothetical transmembrane protein SBB154
914	20910	AA942693	x		KIAA0102 gene product, RIKEN cDNA 573040615 gene
2008	15196	AI136610	ee		KIAA0185 protein
2746	15398	AI236566	s		KIAA0375 gene product, nesca protein
1009	9657	AA945739	e		KIAA0391 gene product
2511	19138	AI229413	s		KIAA0415 gene product
803	3944	AA900688	ww		KIAA0553 protein, MDN1, midasin homolog (yeast), O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase), PC326 protein, TPR-containing, SH2-binding phosphoprotein, death inducer-obliterators-1, expressed sequence AF013969
731	24185	AA893708	y		KIAA0560 gene product
4294	17277	NM_145082	g		KIAA0562 gene product
2371	8418	AI178566	u		KIAA0605 gene product, hypothetical protein FLJ13710
1749	9615	AI071289	l, z		KIAA0779 protein
1700	8496	AI059974	tt		KIAA0978 protein, KIAA1685 protein, KIAA1713 protein
772	22490	AA899289	ii		KIAA1049 protein
972	22492	AA944741	dd		KIAA1049 protein
2565	14303	AI231159	y		KIAA1049 protein
4037	13622	NM_053713	l		Kruppel-like factor 1 (erythroid), Kruppel-like factor 2 (lung), Kruppel-like factor 4 (gut)
4037	22411	NM_053713	f, qq		Kruppel-like factor 1 (erythroid), Kruppel-like factor 2 (lung), Kruppel-like factor 4 (gut)
4037	25379	NM_053713	qq		Kruppel-like factor 1 (erythroid), Kruppel-like factor 2 (lung), Kruppel-like factor 4 (gut)
1165	2915	AA996782	ww		lamin B1, lamin B2
1085	18669	AA956453	w		leptin receptor gene-related protein
2213	11525	AI172286	p		leucine-rich PPR-motif containing
368	10517	AA858600	nn		leucine-zipper-like transcriptional regulator, 1
3546	20204	NM_022196	f		leukemia inhibitory factor, leukemia inhibitory factor (cholinergic differentiation factor)
2470	14230	AI228064	y		LIM domain only 1 (rhombotin 1), LIM domain only 4, LIM only 1, LIM only 4, expressed sequence AI854781
381	14589	AA858982	p, y		LIM domain only 4, LIM only 4
295	22933	AA849763	y		lipin 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4413	672	X13722	ff, jj		low density lipoprotein receptor, low density lipoprotein receptor (familial hypercholesterolemia)
2602	409	A1232268	p, r		low density lipoprotein receptor-related protein associated protein 1, low density lipoprotein-related protein-associated protein 1 (alpha-2-macroglobulin receptor-associated protein 1)
4481	407	Z11995	gg, hh		low density lipoprotein receptor-related protein associated protein 1, low density lipoprotein-related protein-associated protein 1 (alpha-2-macroglobulin receptor-associated protein 1)
2638	17240	A1233054	mm		low molecular mass ubiquinone-binding protein (9.5kD)
2781	21653	A1237535	l, qq		LPS-induced TNF-alpha factor
4382	21654	U53184	f, l, y, General, ee		LPS-induced TNF-alpha factor
2314	4190	A1177016	z, ee		Lsm1 protein, U6 snRNA-associated Sm-like protein LSm8
2258	24745	A1176101	d, j		lysosomal-associated protein transmembrane 4 alpha, lysosomal-associated protein transmembrane 4A, putative integral membrane transporter
1480	7316	A1013883	s		makorin, ring finger protein, 1
3984	3860	NM_053477	g, o, ff, ii		malonyl-CoA decarboxylase
3086	382	NM_012599	a, d, gg, hh		mannose binding lectin, liver (A), mannose-binding lectin (protein C) 2, soluble (opsonic defect)
3998	22919	NM_053556	uu, ww		maternal G10 transcript
2116	3909	A1169903	l		MD-2 protein, lymphocyte antigen 96
2436	14803	A1179906	r		Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse), expressed sequence C85810, transformed mouse 3T3 cell double minute 4
198	3275	AA818112	f, uu		mesenchymal stem cell protein DSC92, neugrin
2981	18620	L40364	gg, hh		MHC (A.CA/J(H-2K-f) class I antigen, Rattus norvegicus clone 4 class I MHC heavy chain RT1.A(n) antigen precursor (RT1.A(n)) mRNA, complete cds, histocompatibility 2, D region locus 1, histocompatibility 2, L region, histocompatibility 2, Q region locus 10, histocompatibility 2, T region locus 24, major histocompatibility complex, class I, B
605	8317	AA892234	b, s, z, General		microsomal glutathione S-transferase 3
504	15205	AA875263	m		microspherule protein 1



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
23	20957	AA799440	ff		mitochondrial ribosomal protein L13
2205	11416	AI172185	t, ff		mitochondrial ribosomal protein L49
2848	19152	AI639387	c		mitochondrial ribosomal protein S6
4065	17299	NM_053842	ww		mitogen activated protein kinase 1, mitogen-activated protein kinase 1, nemo like kinase
97	16712	AA800015	v		Mitogen activated protein kinase 12 (Zipper (leucine) protein kinase), integrin linked kinase, integrin-linked kinase, mitogen activated protein kinase kinase kinase 11, mitogen activated protein kinase kinase kinase 12, mitogen-activated protein kinase kinase kinase 12, mitogen-activated protein kinase kinase kinase 13
3411	24766	NM_017322	k		mitogen activated protein kinase 9, mitogen-activated protein kinase 9
3411	24767	NM_017322	u		mitogen activated protein kinase 9, mitogen-activated protein kinase 9
3907	10176	NM_031837	w		MLL septin-like fusion, septin 9
306	18696	AA849965	q, nn, qq, xx		MO25 protein, RIKEN cDNA 2810425013 gene, calcium binding protein, 39 kDa
356	18697	AA851776	j		MO25 protein, RIKEN cDNA 2810425013 gene, calcium binding protein, 39 kDa
328	3924	AA851017	ff		molybdenum cofactor synthesis 2
1341	3926	AI009592	e, o		molybdenum cofactor synthesis 2
4267	809	NM_139089	ee		monokine induced by gamma interferon, small inducible cytokine B subfamily (Cys-X-Cys motif), member 13 (B-cell chemoattractant), small inducible cytokine B subfamily (Cys-X-Cys), member 10, small inducible cytokine subfamily B (Cys-X-Cys), member 10, small inducible cytokine subfamily B (Cys-X-Cys), member 11
4207	1463	NM_134334	e, jj		Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone:1810054L16: kidney-derived aspartic protease-like protein, full insert sequence, cathepsin D, cathepsin D (lysosomal aspartyl protease)
3846	20766	NM_031643	nn		Mus musculus 12 days embryo head cDNA, RIKEN full-length enriched library, clone:3000002B10: mitogen activated protein kinase kinase 5, full insert sequence, mitogen activated protein kinase kinase 1, mitogen-activated protein kinase kinase 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3846	20767	NM_031643	s		Mus musculus 12 days embryo head cDNA, RIKEN full-length enriched library, clone:3000002B10:mitogen activated protein kinase kinase 5, full insert sequence, mitogen activated protein kinase kinase 1, mitogen-activated protein kinase kinase 1
3530	19824	NM_021750	c, General, kk		Mus musculus adult male liver cDNA, RIKEN full-length enriched library, clone:1300015E02:deoxyribonuclease II alpha, full insert sequence, cysteine sulfinic acid decarboxylase-related protein 2
3530	19825	NM_021750	l, General, dd, ii, qq, vv		Mus musculus adult male liver cDNA, RIKEN full-length enriched library, clone:1300015E02:deoxyribonuclease II alpha, full insert sequence, cysteine sulfinic acid decarboxylase-related protein 2
3269	1300	NM_013190	t		Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clone:2210403E17:phosphofructokinase, liver, B-type, full insert sequence, phosphofructokinase, liver, phosphofructokinase, liver, B-type
867	23261	AA925145	b, uu, vv		Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930572N12:betaine-homocysteine methyltransferase, full insert sequence, betaine-homocysteine methyltransferase, betaine-homocysteine methyltransferase 2
3955	20235	NM_053302	bb		Mus musculus dual specificity phosphatase T-DSP10 mRNA, complete cds, RIKEN cDNA 5930436K22 gene, protein phosphatase
751	22783	AA894207	cc		Mus musculus dual specificity phosphatase T-DSP10 mRNA, complete cds, RIKEN cDNA 5930436K22 gene, protein phosphatase
4011	21709	NM_053596	kk, ss		Mus musculus endothelin converting enzyme-2 mRNA, complete cds, endothelin converting enzyme 1, expressed sequence AW322500, mel transforming oncogene-like 1
4102	24430	NM_053996	w		Mus musculus glycine transporter type 2 (Glyt2) mRNA, complete cds, glycine transporter 1, homolog of rat orphan transporter v7-3, solute carrier family 6 (neurotransmitter transporter, L-proline), member 7

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2545	13555	AI230547	d		Mus musculus lethal giant larvae-like protein 2 mRNA, complete cds, RIKEN cDNA 4930565N16 gene, lethal giant larvae homolog 1 (Drosophila)
3241	1793	NM_013105	jj		Mus musculus mRNA for cytochrome P450, CYP3A, complete cds, cytochrome P450, steroid inducible 3a11, cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 3
3241	1794	NM_013105	jj		Mus musculus mRNA for cytochrome P450, CYP3A, complete cds, cytochrome P450, steroid inducible 3a11, cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 3
3241	1795	NM_013105	jj		Mus musculus mRNA for cytochrome P450, CYP3A, complete cds, cytochrome P450, steroid inducible 3a11, cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 3
3241	1796	NM_013105	v		Mus musculus mRNA for cytochrome P450, CYP3A, complete cds, cytochrome P450, steroid inducible 3a11, cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 3
3963	15790	NM_053341	u		Mus musculus mRNA for PDZ-domain protein Gipc3, complete cds, PDZ domain protein GIPC2, expressed sequence AU021850, regulator of G-protein signaling 19 interacting-protein 1, regulator of G- protein signalling 19 interacting protein 1, semaF cytoplasmic domain associated protein 2
3949	24484	NM_052806	k		Mus musculus nicotinic acetylcholine receptor beta4 subunit (Chmb4) mRNA, complete cds, cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal), cholinergic receptor, nicotinic, beta polypeptide 4
3718	1624	NM_031023	q, z, General		Mus musculus secreted protein precursor Ym2 mRNA, complete cds, Mus musculus, Similar to di-N-acetylchitinase, clone IMAGE:4038549, mRNA, partial cds, RIKEN cDNA 2210401K11 gene, RIKEN cDNA 4921536I21 gene, chitinase 1 (chitotriosidase), chitinase 3-like 3, chitinase di-N-acetyl-

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2351	19184	AI178025	d		Mus musculus testis expressed homeobox mRNA, complete cds, RIKEN cDNA 5430405H02 gene, RIKEN cDNA 5730599O09 gene, TG interacting factor, TGF(beta)-induced transcription factor 2-like, TGFB-induced factor (TALE family homeobox), TGFB-induced factor 2 (TALE family homeobox)
4285	1962	NM_139329	ii		Mus musculus, clone IMAGE:3491119, mRNA, partial cds, Rattus norvegicus 3beta-hydroxysteroid dehydrogenase/delta5-delta4 isomerase (3beta-HSD) mRNA, complete cds, hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1, hydroxysteroid dehydrogenase 1, delta<5>-3-beta, hydroxysteroid dehydrogenase-2, delta<5>-3-beta, hydroxysteroid dehydrogenase-3, delta<5>-3-beta, hydroxysteroid dehydrogenase-6, delta<5>-3-beta
3672	23489	NM_024375	xx		Mus musculus, clone IMAGE:4224368, mRNA, partial cds, growth differentiation factor 10
4230	534	NM_138512	b, u		Mus musculus, clone MGC:25860 IMAGE:4195655, mRNA, complete cds, RIKEN cDNA 0610005C13 gene, RIKEN cDNA 2010301M18 gene, RIKEN cDNA 2210009K14 gene, cytochrome P450, 2c29, cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19, expressed sequence AI159681
3343	2968	NM_017158	n		Mus musculus, clone MGC:25860 IMAGE:4195655, mRNA, complete cds, RIKEN cDNA 2010301M18 gene, RIKEN cDNA 2210009K14 gene, cytochrome P450, 2c29, cytochrome P450, 2c38, cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19, expressed sequence AI159681, expressed sequence AI159681

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3343	2970	NM_017158	f, rr, ss		Mus musculus, clone MGC:25860 IMAGE:4195655, mRNA, complete cds, RIKEN cDNA 2010301M18 gene, RIKEN cDNA 2210009K14 gene, cytochrome P450, 2c29, cytochrome P450, 2c38, cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19, expressed sequence A1159681, expressed sequence A1662255
4203	699	NM_133617	b, q, General		Mus musculus, clone MGC:25863 IMAGE:4196269, mRNA, complete cds, Mus musculus, clone MGC:37860 IMAGE:5100400, mRNA, complete cds, serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10, serine protease inhibitor 1-1
4195	4312	NM_133586	y, rr, ww		Mus musculus, clone MGC:28542 IMAGE:4194872, mRNA, complete cds, Mus musculus, clone MGC:31116 IMAGE:4163362, mRNA, complete cds, carboxylesterase 1, carboxylesterase 1 (monocyte/macrophage serine esterase 1), carboxylesterase 2 (intestine, liver), carboxylesterase 3, carboxylesterase 3 (brain), carboxylesterase-related protein, expressed sequence A1266984, neuroligin 1
977	2893	AA944833	kk		Mus musculus, clone MGC:36467 IMAGE:5359082, mRNA, complete cds, RIKEN cDNA 4933434H11 gene, RNA binding protein p45AUF1, heterogeneous nuclear ribonucleoprotein D, heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kD), heterogeneous nuclear ribonucleoprotein D-like, high-glycine/tyrosine protein type I E5
4397	23926	U86635	d, oo		Mus musculus, glutathione S-transferase, mu type 3 (Yb3), clone MGC:30483 IMAGE:4166881, mRNA, complete cds, RIKEN cDNA 0610005A07 gene, glutathione S-transferase M2 (muscle), glutathione S-transferase M5, glutathione S-transferase, mu 5, glutathione S-transferase, mu type 3 (Yb3)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3268	1255	NM_013189	ff, xx		Mus musculus, Guanine nucleotide binding protein, alpha, clone MGC:25486 IMAGE:4501587, mRNA, complete cds, guanine nucleotide binding protein (G protein), alpha z polypeptide
4204	1728	NM_133618	b, m, o, cc		Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone MGC:39067 IMAGE:5365469, mRNA, complete cds, Mus musculus, Similar to hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit, clone MGC:7126 IMAGE:3158015, mRNA, complete cds, acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase), hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit
4253	14964	NM_138884	s, uu		Mus musculus, Similar to aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase), clone MGC:25814 IMAGE:4162788, mRNA, complete cds, aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)
4253	14965	NM_138884	m		Mus musculus, Similar to aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase), clone MGC:25814 IMAGE:4162788, mRNA, complete cds, aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)
4353	13520	S87522	c		Mus musculus, Similar to aminopeptidase B, clone MGC:29229 IMAGE:5041005, mRNA, complete cds, expressed sequence A1894167, leukotriene A4 hydrolase
4089	6538	NM_053959	l		Mus musculus, Similar to amphiphysin, clone IMAGE:5357091, mRNA, partial cds, bridging integrator 1, bridging integrator 2, myc box dependent interacting protein 1
4089	6539	NM_053959	ss, uu		Mus musculus, Similar to amphiphysin, clone IMAGE:5357091, mRNA, partial cds, bridging integrator 1, bridging integrator 2, myc box dependent interacting protein 1

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4053	25594	NM_053799	m		Mus musculus, Similar to aspartyl-tRNA synthetase, clone MGC:6719 IMAGE:3586278, mRNA, complete cds, asparaginyl-tRNA synthetase, aspartyl-tRNA synthetase, lysyl-tRNA synthetase
77	20998	AA799803	b, General		Mus musculus, Similar to complement component 1, s subcomponent, clone MGC:19094 IMAGE:4196654, mRNA, complete cds, Mus musculus, Similar to complement component 1, s subcomponent, clone MGC:28492 IMAGE:4166254, mRNA, complete cds, complement component 1, s subcomponent, protein C
813	4857	AA901237	mm		Mus musculus, Similar to cyclin K, clone MGC:28173 IMAGE:3986609, mRNA, complete cds, cyclin T1
4031	3454	NM_053662	li, tt		Mus musculus, Similar to cyclin K, clone MGC:28173 IMAGE:3986609, mRNA, complete cds, Paneth cell enhanced expression, RIKEN cDNA 1810009O10 gene, cyclin L, cyclin T1, cyclin T2
4031	3455	NM_053662	w, tt		Mus musculus, Similar to cyclin K, clone MGC:28173 IMAGE:3986609, mRNA, complete cds, Paneth cell enhanced expression, RIKEN cDNA 1810009O10 gene, cyclin L, cyclin T1, cyclin T2
846	16806	AA924591	r, nn		Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11, expressed sequence A1314743
3014	16807	M33936	k, o, v, ss, uu, xx		Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837, mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11, expressed sequence A1314743

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3967	19512	NM_053365	xx		Mus musculus, Similar to fatty acid binding protein 4, adipocyte, clone MGC:18548 IMAGE:3670866, mRNA, complete cds, fatty acid binding protein 4, adipocyte
4192	25821	NM_133570	cc		Mus musculus, Similar to gastrin-releasing peptide, clone MGC:37475 IMAGE:4984025, mRNA, complete cds, gastrin-releasing peptide
4161	16767	NM_130826	o		Mus musculus, Similar to hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit, clone IMAGE:4953760, mRNA, partial cds, enoyl Coenzyme A hydratase, short chain, 1, mitochondrial, hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit
4161	16768	NM_130826	o, ss		Mus musculus, Similar to hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit, clone IMAGE:4953760, mRNA, partial cds, enoyl Coenzyme A hydratase, short chain, 1, mitochondrial, hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit
4200	17758	NM_133606	k, o, v, xx		Mus musculus, Similar to hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit, clone IMAGE:4953760, mRNA, partial cds, RIKEN cDNA 1300002P22 gene, enoyl Coenzyme A hydratase, short chain, 1, mitochondrial, enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
640	15154	AA892532	q, x, dd, tt		Mus musculus, Similar to hypothetical protein MGC3178, clone MGC:28887 IMAGE:4911455, mRNA, complete cds, RIKEN cDNA 1200006L06 gene, RIKEN cDNA 1700015E05 gene, RIKEN cDNA 2700053F16 gene, RIKEN cDNA 4921506J03 gene, expressed sequence AI987846, expressed sequence AL023058, expressed sequence C77895, protein disulfide isomerase-related protein
4068	19018	NM_053849	y, xx		Mus musculus, Similar to hypothetical protein MGC3178, clone MGC:28887 IMAGE:4911455, mRNA, complete cds, RIKEN cDNA 1700015E05 gene, RIKEN cDNA 2700053F16 gene, RIKEN cDNA 4921506J03 gene, calcium binding protein, intestinal, expressed sequence AI987846, protein disulfide isomerase related protein (calcium-binding protein intestinal-related)
16	22646	AA799301	r		Mus musculus, Similar to ligatin, clone IMAGE:4982955, mRNA, partial cds, ligatin
1075	22576	AA955983	m, dd		Mus musculus, Similar to microsomal glutathione S-transferase 2, clone MGC:41409 IMAGE:1511631, mRNA, complete cds, arachidonate 5-lipoxygenase-activating protein, leukotriene C4 synthase, microsomal glutathione S-transferase 2
3204	9917	NM_012993	qq		Mus musculus, Similar to N-arginine dibasic convertase 1, clone MGC:25477 IMAGE:4486176, mRNA, complete cds, expressed sequence AI875733, insulin degrading enzyme, nardilysin (N-arginine dibasic convertase)
3204	9918	NM_012993	ll		Mus musculus, Similar to N-arginine dibasic convertase 1, clone MGC:25477 IMAGE:4486176, mRNA, complete cds, expressed sequence AI875733, insulin degrading enzyme, nardilysin (N-arginine dibasic convertase)
3257	1309	NM_013159	e, bb, oo		Mus musculus, Similar to N-arginine dibasic convertase 1, clone MGC:25477 IMAGE:4486176, mRNA, complete cds, insulin degrading enzyme, insulin-degrading enzyme

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3996	1198	NM_053554	t, mm		Mus musculus, Similar to phosphatidylinositol binding clathrin assembly protein, clone MGC:36430 IMAGE:5345558, mRNA, complete cds, phosphatidylinositol binding clathrin assembly protein, synaptosomal-associated protein, 91 kDa
3042	3424	M94557	o		Mus musculus, Similar to single-stranded DNA binding protein, clone MGC:41439 IMAGE:1314987, mRNA, complete cds, single-stranded DNA binding protein, single-stranded DNA binding protein 1
3992	31	NM_053537	j		Mus musculus, Similar to solute carrier family 22 (organic anion transporter), member 7, clone MGC:18877 IMAGE:4236556, mRNA, complete cds, expressed sequence A1648912, solute carrier family 22 (organic anion transporter), member 6, solute carrier family 22 (organic anion transporter), member 7
3992	32	NM_053537	h, k, l, uu		Mus musculus, Similar to solute carrier family 22 (organic anion transporter), member 7, clone MGC:18877 IMAGE:4236556, mRNA, complete cds, expressed sequence A1648912, solute carrier family 22 (organic anion transporter), member 6, solute carrier family 22 (organic anion transporter), member 7
3117	1602	NM_012697	dd, mm		Mus musculus, Similar to solute carrier family 22 (organic cation transporter)-like 2, clone MGC:25980 IMAGE:4242162, mRNA, complete cds, solute carrier family 22 (organic cation transporter), member 1
1401	16112	A1011706	tt		Mus musculus, Similar to splicing factor, arginine/serine-rich 7 (35kD), clone MGC:38287 IMAGE:5342587, mRNA, complete cds, Mus musculus, clone MGC:36924 IMAGE:4945988, mRNA, complete cds, RIKEN cDNA 1210001E11 gene, splicing factor, arginine/serine-rich 3, splicing factor, arginine/serine-rich 3 (SRp20), splicing factor, arginine/serine-rich 4, splicing factor, arginine/serine-rich 5, splicing factor, arginine/serine-rich 5 (SRp40 HPS)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1283	20741	AF084186	nn		Mus musculus, similar to src homology three (SH3) and cysteine rich domain, clone MGC:38869 IMAGE:5361431, mRNA, complete cds, RIKEN cDNA 2610027H02 gene, RIKEN cDNA 2610301F02 gene, alpha-spectrin 1, erythroid, nesprin-1, spectrin, alpha, erythrocytic 1 (elliptocytosis 2), spectrin, alpha, non-erythrocytic 1 (alpha-fodrin), src homology three (SH3) and cysteine rich domain
3551	762	NM_022245	t, mm		Mus musculus, Similar to sulfite oxidase, clone MGC:28458 IMAGE:4160277, mRNA, complete cds, RIKEN cDNA 0610009N12 gene, cytochrome b-5
3761	14970	NM_031127	l, p, x, z, General, kk, nn		Mus musculus, Similar to sulfite oxidase, clone MGC:28458 IMAGE:4160277, mRNA, complete cds, RIKEN cDNA 1810044O22 gene, RIKEN cDNA 2810034J18 gene, sulfite oxidase
1315	24151	AI008793	u		Mus musculus, Similar to TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65 kD, clone MGC:41377 IMAGE:1244243, mRNA, complete cds, TAF6 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 80 kD, TAF6 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 80 kDa, TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65 kD
1928	8372	AI104256	pp		MUS81 endonuclease, RIKEN cDNA 1200008A18 gene
160	10320	AA800855	k		myeloid leukemia factor 2
160	17775	AA800855	cc		myeloid leukemia factor 2
4209	517	NM_134350	ee		myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse), myxovirus (influenza virus) resistance 2
2020	23788	AI137176	ss		N-acetylglucosaminidase, alpha- (Sanfilippo disease IIIB), alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB)
1986	7266	AI112237	d, kk, nn		NADH dehydrogenase (ubiquinone) 1 beta-subcomplex, 2 (8kD, AGGG), RIKEN cDNA 1810011O01 gene
32	6505	AA799499	p		NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3 (12kD, B12), RIKEN cDNA 2700033I16 gene

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
18	3636	AA799336	qq		NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1 (8kD, SDAP)
1946	22822	AI104679	p, z		NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1 (6kD, KFYI)
1456	21302	AI013297	o		NADH dehydrogenase (ubiquinone) Fe-S protein 4, NADH dehydrogenase (ubiquinone) Fe-S protein 4 (18kD) (NADH-coenzyme Q reductase)
1332	16956	AI009390	ee		NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase)
2583	17297	AI231785	ii, rr		Niemann Pick type C2, Niemann-Pick disease, type C2
4067	1508	NM_053845	e, uu, vv		Nit protein 2, expressed sequence AI195023, nitrilase 1, ureidopropionase, beta
1185	16883	AA997345	dd		Nit protein 2, RIKEN cDNA 1190017B19 gene
2698	3875	AI235047	q		nuclear cap binding protein subunit 1, 80kD
87	18378	AA799888	bb		nuclear localization signal deleted in velocardiocardial syndrome, nuclear localization signal protein absent in velocardiocardial patients
808	18379	AA900993	u		nuclear localization signal deleted in velocardiocardial syndrome, nuclear localization signal protein absent in velocardiocardial patients
795	6483	AA900461	v		OB-receptor gene related protein (OB-RGRP), RIKEN cDNA 1520402014 gene, leptin receptor gene-related protein, leptin receptor overlapping transcript-like 1
1284	20214	AF091567	xx		odorant receptor S1 gene, olfactory receptor 41, olfactory receptor, family 6, subfamily A, member 1
1285	20236	AF091570	cc		odorant receptor S1 gene, olfactory receptor 41, olfactory receptor, family 6, subfamily A, member 1
1286	25222	AF091574	g		odorant receptor S1 gene, olfactory receptor 41, olfactory receptor, family 6, subfamily A, member 1
518	18911	AA875615	s, qq		Opa-interacting protein 2, polymyositis/scleroderma autoantigen 1, polymyositis/scleroderma autoantigen 1 (75kD)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1602	5712	AI045154	n		origin recognition complex, subunit 5 homolog (S. cerevisiae), origin recognition complex, subunit 5-like (yeast)
1486	2909	AI013946	m		oxysterol binding protein
2870	14332	AJ001044	q, ff		p53-induced protein PIGPC1, tumor-associated calcium signal transducer 1
3483	16330	NM_019331	General, kk		paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein), proprotein convertase subtilisin/kexin type 3, proprotein convertase subtilisin/kexin type 4
3483	16331	NM_019331	h, m, General, mm		paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein), proprotein convertase subtilisin/kexin type 3, proprotein convertase subtilisin/kexin type 4
4114	15391	NM_057114	l		peroxiredoxin 1
3985	4290	NM_053487	o, y, xx		peroxisomal biogenesis factor 11A, peroxisomal biogenesis factor 11B, peroxisomal biogenesis factor 11a, peroxisomal biogenesis factor 11b
1443	2937	AI012951	pp		peroxisome biogenesis factor 13
4131	23129	NM_078622	t, ff		phosphate cytidyltransferase 1, choline, alpha isoform, solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1
2192	6085	AI171990	ww		Phosphatidylglycerophosphate Synthase, hypothetical protein DKFZp762M186
4258	1049	NM_138901	g		phosphatidylinositol glycan, class L
480	20389	AA875045	oo		phosphodiesterase 6D, cGMP-specific, rod, delta
3624	24540	NM_022707	u		phospholamban
1976	11339	AI111840	jj		phosphomevalonate kinase
2536	15862	AI230228	m, n, u		phosphoserine aminotransferase
4035	1957	NM_053674	ii		phytanoyl-CoA hydroxylase, phytanoyl-CoA hydroxylase (Refsum disease)
851	4994	AA924658	k		PIN2-interacting protein 1, PIN2/TRF1-interacting protein
50	19472	AA799616	c, f, p, General, kk		pituitary tumor-transforming 1 interacting protein
2410	13606	AI179289	j		placenta-specific 3
3253	46	NM_013151	l, vv		plasminogen activator, tissue
1210	14149	AA998172	y		platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit, platelet-activating factor acetylhydrolase, isoform 1b, beta subunit (30kD)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3731	9516	NM_031053	g		PMS1 postmeiotic segregation increased 1 (S. cerevisiae), PMS2 postmeiotic segregation increased 2 (S. cerevisiae), expressed sequence A1317206, mutL homolog 1 (E. coli), mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli), postmeiotic segregation increased 2 (S. cerevisiae), postmeiotic segregation increased 2-like 8
3313	923	NM_017076	f, l, n, p, kk, xx		poliovirus receptor, poliovirus receptor-related 1, poliovirus receptor-related 1 (herpesvirus entry mediator C; nectin), poliovirus receptor-related 2 (herpesvirus entry mediator B), poliovirus sensitivity, tumor-associated antigen 1
1274	15715	AF053092	ii		Polo-like kinase homolog, endoplasmic reticulum (ER) to nucleus signalling 1, polo-like kinase (Drosophila), polo-like kinase homolog, (Drosophila)
4223	2801	NM_134449	jj, oo		polymerase I and transcript release factor, serum deprivation response, serum deprivation response (phosphatidylserine binding protein)
4223	2802	NM_134449	c		polymerase I and transcript release factor, serum deprivation response, serum deprivation response (phosphatidylserine binding protein)
1873	5910	A1102689	k		POP7 (processing of precursor, S. cerevisiae) homolog, RIKEN cDNA 0610037N12 gene
599	19469	AA892112	r		proline dehydrogenase, proline dehydrogenase (oxidase) 1
3781	1422	NM_031324	ss		prolyl endopeptidase
3319	1968	NM_017091	g		proprotein convertase subtilisin/kexin type 2
379	6403	AA858879	y		proteasome (prosome, macropain) 26S subunit, non-ATPase, 13
2661	18900	A1233570	ee		proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
3891	4325	NM_031784	u, v, tt		protein inhibitor of activated STAT 1, protein inhibitor of activated STAT 3, protein inhibitor of activated STAT gamma, protein inhibitor of activated STAT3
4169	25405	NM_133307	s, t, mm		protein kinase C, delta, protein kinase C, theta
540	21952	AA891537	tt		protein predicted by clone 23733
1650	10080	A1058639	General		protein Z, vitamin K-dependent plasma glycoprotein

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3531	20035	NM_021754	qq		PRP31 pre-mRNA processing factor 31 homolog (yeast), RIKEN cDNA 1500019O16 gene, nucleolar protein 5, nucleolar protein 5A (56kD with KKE/D repeat), nucleolar protein NOP5/NOP58
3531	20036	NM_021754	r		PRP31 pre-mRNA processing factor 31 homolog (yeast), RIKEN cDNA 1500019O16 gene, nucleolar protein 5, nucleolar protein 5A (56kD with KKE/D repeat), nucleolar protein NOP5/NOP58
4183	21703	NM_133525	oo		putative c-Myc-responsive
2004	23653	AI136396	bb		RAB geranylgeranyl transferase, b subunit, expressed sequence AA409500, farnesyltransferase, CAAX box, beta
3035	24651	M83678	u, y, nn		RAB10, member RAS oncogene family, RAB12, member RAS oncogene family, RAB13, member RAS oncogene family, RIKEN cDNA 0610007N03 gene, expressed sequence AW107754
4196	19822	NM_133590	x		RAB7, member RAS oncogene family-like 1, RAB9, member RAS oncogene family, RAB9A, member RAS oncogene family, RAB9B, member RAS oncogene family, RIKEN cDNA 2810011A17 gene
3424	20778	NM_019124	a, ww		rabaptin 5, rabaptin-5
333	12769	AA851192	a, cc, jj		Rag C protein, Rag D protein
785	21213	AA899991	f, General		Rag C protein, Rag D protein
4299	9845	NM_145672	m		Rattus norvegicus CXC chemokine RTCK1 (Rtck1) mRNA, complete cds, interleukin 8
2440	6455	AI179984	vv		Rattus norvegicus kallistatin mRNA, complete cds, serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1, serine protease inhibitor 2
4287	4949	NM_139338	s		Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, Solute carrier family 17 (sodium/hydrogen exchanger), member 2, expressed sequence AI649385, solute carrier family 34 (sodium phosphate), member 1
3745	1515	NM_031095	uu		renin binding protein
3745	1516	NM_031095	x		renin binding protein
3745	1517	NM_031095	ss		renin binding protein
2502	23955	AI229178	e		ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease)
3619	17808	NM_022699	h, ll		ribosomal protein L30

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3579	1867	NM_022510	ee		ribosomal protein L4
4069	24705	NM_053850	ww		RIKEN cDNA 0610006A11 gene, biliverdin reductase A
1474	7310	AI013816	ff		RIKEN cDNA 0610006I08 gene, hypothetical protein MGC3196
2397	19041	AI179049	oo		RIKEN cDNA 0610009J22 gene, RIKEN cDNA 1600023E10 gene, RIKEN cDNA 1700065B19 gene, expressed sequence AI854545, ring finger protein (C3H2C3 type) 6, ring finger protein 12
4217	23321	NM_134407	ss		RIKEN cDNA 0610025K21 gene, aflatoxin B1 aldehyde reductase, aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)
365	18001	AA858573	x, bb, gg, hh		RIKEN cDNA 0610038O04 gene, secreted phosphoprotein 2, 24kD
1553	18002	AI043655	g, x, dd		RIKEN cDNA 0610038O04 gene, secreted phosphoprotein 2, 24kD
4365	17999	U19485	a, g, x, bb, rr		RIKEN cDNA 0610038O04 gene, secreted phosphoprotein 2, 24kD
4365	18000	U19485	g, x, cc, dd		RIKEN cDNA 0610038O04 gene, secreted phosphoprotein 2, 24kD
964	14763	AA944481	s, ff, nn		RIKEN cDNA 1110007F23 gene, angiopoietin 2, angiopoietin-like 3, angiopoietin-like 4, ficolin (collagen/fibrinogen domain containing lectin) 2 (hucolin), ficolin (collagen/fibrinogen domain containing) 1, ficolin B
3981	23274	NM_053467	b, j, q, ee		RIKEN cDNA 1110014L17 gene, RIKEN cDNA 1810008K16 gene, RIKEN cDNA 2400003B06 gene, transmembrane trafficking protein
3981	23276	NM_053467	n		RIKEN cDNA 1110014L17 gene, RIKEN cDNA 1810008K16 gene, RIKEN cDNA 2400003B06 gene, transmembrane trafficking protein
1126	2308	AA964227	l, General		RIKEN cDNA 1110019K23 gene, methylene tetrahydrofolate dehydrogenase (NAD <sup>+</sup> dependent), methenyltetrahydrofolate cyclohydrolase, methylenetetrahydrofolate dehydrogenase (NAD <sup>+</sup> dependent), methenyltetrahydrofolate cyclohydrolase, methylenetetrahydrofolate dehydrogenase (NADP <sup>+</sup> dependent), methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthase



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
4000	21940	NM_053568	General		RIKEN cDNA 1110033E03 gene, phosphate cytidyltransferase 2, ethanolamine
4000	21941	NM_053568	ff		RIKEN cDNA 1110033E03 gene, phosphate cytidyltransferase 2, ethanolamine
2207	6147	AI172236	u		RIKEN cDNA 1110063B05 gene, cofactor required for Sp1 transcriptional activation, subunit 9 (33kD)
3545	20194	NM_022192	v		RIKEN cDNA 1190005L05 gene, histidine triad nucleotide binding protein, histidine triad nucleotide binding protein 1, histidine triad nucleotide binding protein 2
3724	21095	NM_031039	e		RIKEN cDNA 1300007J06 gene, RIKEN cDNA 2310022B03 gene, expressed sequence AU014768, glutamic pyruvate transaminase (alanine aminotransferase) 2, glutamic-pyruvate transaminase (alanine aminotransferase)
3791	5821	NM_031351	ll		RIKEN cDNA 1300011D16 gene, attractin, testis intracellular mediator protein
4056	15800	NM_053810	w, cc		RIKEN cDNA 1300018G05 gene, synaptosomal-associated protein, 29kD
3041	25467	M93297	t		RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene, ornithine aminotransferase, ornithine aminotransferase (gyrate atrophy)
3586	4242	NM_022521	xx		RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene, ornithine aminotransferase, ornithine aminotransferase (gyrate atrophy)
1866	15218	AI102495	cc		RIKEN cDNA 1300019I21 gene, nucleoside phosphorylase
1133	12563	AA964533	m		RIKEN cDNA 1500003K04 gene, density-regulated protein
2640	14098	AI233114	j		RIKEN cDNA 1500004O06 gene, ubiquinol-cytochrome c reductase core protein II
1959	21253	AI105110	ii, ww		RIKEN cDNA 1500010M16 gene, translation factor sui1 homolog
375	6380	AA858758	o		RIKEN cDNA 1500031O19 gene, hypothetical protein MGC12335
3276	20826	NM_013218	gg, hh		RIKEN cDNA 1700018L02 gene, adenylate kinase 3 alpha like, expressed sequence AI506714
35	21120	AA799526	pp		RIKEN cDNA 1700043E15 gene, small nuclear ribonucleoprotein D3 polypeptide (18kD)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
175	1397	AA817787	s, General		RIKEN cDNA 1700094M07 gene, potassium channel modulatory factor
2200	1398	AI172105	kk		RIKEN cDNA 1700094M07 gene, potassium channel modulatory factor
4125	706	NM_057147	ll		RIKEN cDNA 1810005C06 gene, SEC22 vesicle trafficking protein-like 1 (S. cerevisiae), vesicle trafficking protein
2171	17529	AI171460	u		RIKEN cDNA 1810026B04 gene, dicarbonyl/L-xylulose reductase, hydroxysteroid (17-beta) dehydrogenase 8, hypothetical protein BC014057, hypothetical protein FLJ14431, oxidoreductase UCPA
346	883	AA851347	t		RIKEN cDNA 2010006G21 gene, RIKEN cDNA 2810425K19 gene, sorting nexin 5
2777	14841	AI237372	v		RIKEN cDNA 2310009A18 gene, RTC domain containing 1
706	16168	AA893280	z, nn		RIKEN cDNA 2310076L09 gene, adipose differentiation related protein, adipose differentiation-related protein
1546	16169	AI030932	nn, rr		RIKEN cDNA 2310076L09 gene, adipose differentiation related protein, adipose differentiation-related protein
2154	16170	AI170894	ii		RIKEN cDNA 2310076L09 gene, adipose differentiation related protein, adipose differentiation-related protein
2354	13389	AI178104	d		RIKEN cDNA 2400009B11 gene, chromosome 11 open reading frame 13
2231	4926	AI175034	ll		RIKEN cDNA 2410002O22 gene, hypothetical protein FLJ13611
3578	1610	NM_022509	ee, gg, hh		RIKEN cDNA 2410004J23 gene, expressed sequence A1849087, splicing factor 30, survival of motor neuron-related, survival motor neuron, survival of motor neuron 1, telomeric
3578	1611	NM_022509	h, i		RIKEN cDNA 2410004J23 gene, expressed sequence A1849087, splicing factor 30, survival of motor neuron-related, survival motor neuron, survival of motor neuron 1, telomeric
3759	1580	NM_031117	oo, ww		RIKEN cDNA 2410045I01 gene, SNRPN upstream reading frame, small nuclear ribonucleoprotein B, small nuclear ribonucleoprotein N, small nuclear ribonucleoprotein polypeptide N, small nuclear ribonucleoprotein polypeptides B and B1
3564	13479	NM_022390	e, y, xx		RIKEN cDNA 2610008L04 gene, quinoid dihydropteridine reductase

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3564	13480	NM_022390	r, ss		RIKEN cDNA 2610008L04 gene, quinoid dihydropteridine reductase
383	17559	AA858994	ll		RIKEN cDNA 2610009E16 gene, parathymosin, prothymosin alpha
3919	16257	NM_031975	I, s, General, ll, rr		RIKEN cDNA 2610009E16 gene, parathymosin, prothymosin alpha
4118	15151	NM_057131	ss		RIKEN cDNA 2610101M19 gene, phosphoribosyl pyrophosphate synthetase-associated protein 2
382	16985	AA858990	rr		RIKEN cDNA 2610301D06 gene, eukaryotic translation elongation factor 1 gamma
441	4222	AA860024	ll, rr		RIKEN cDNA 2610301D06 gene, eukaryotic translation elongation factor 1 gamma
2930	16986	H33020	bb		RIKEN cDNA 2610301D06 gene, eukaryotic translation elongation factor 1 gamma
2294	3034	AI176613	b		RIKEN cDNA 2610312E17 gene, RIKEN cDNA 2810047L02 gene, hypothetical protein DKFZp434F054, hypothetical protein FLJ12270, peroxisomal biogenesis factor 7, peroxisome biogenesis factor 7
3223	14421	NM_013053	o		RIKEN cDNA 2700028P07 gene, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
548	22858	AA891591	w		RIKEN cDNA 2810401C16 gene, programmed cell death 8 (apoptosis inducing factor), programmed cell death 8 (apoptosis-inducing factor)
3974	13903	NM_053412	General		RIKEN cDNA 2810405J04 gene, interleukin enhancer binding factor 2, interleukin enhancer binding factor 2, 45kD, interleukin enhancer binding factor 3, interleukin enhancer binding factor 3, 90kD, zinc finger RNA binding protein
3417	16381	NM_017343	I, y, z, General, ee		RIKEN cDNA 2900073G15 gene, myosin regulatory light chain
3417	16382	NM_017343	z		RIKEN cDNA 2900073G15 gene, myosin regulatory light chain
96	2098	AA799995	I		RIKEN cDNA 3100001N19 gene, ribosomal protein L14
2441	2099	AI180015	w, tt		RIKEN cDNA 3100001N19 gene, ribosomal protein L14
3638	18107	NM_022949	b, I, General, ee		RIKEN cDNA 3100001N19 gene, ribosomal protein L14

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1698	900	AI059963	ii, jj		RIKEN cDNA 3110021P21 gene, expressed sequence AI314976, syntaxin binding protein 2, vacuolar protein sorting 33B (yeast)
3674	768	NM_024382	u, rr		RIKEN cDNA 4833409F13 gene, expressed sequence AI303446, serine (or cysteine) proteinase inhibitor, clade D (heparin cofactor), member 1, serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antipain, pigment epithelium derived factor), member 2
119	19020	AA800291	e, h, n		RIKEN cDNA 4921528H16 gene, discs, large homolog 3 (Drosophila), guanylate kinase 1, syntrophin, acidic 1, syntrophin, basic 2, syntrophin, beta 2 (dystrophin-associated protein A1, 59kD, basic component 2)
2595	14102	AI232131	rr		RIKEN cDNA 4930425N13 gene, hexosaminidase A, hexosaminidase A (alpha polypeptide)
1093	16578	AA957143	d		RIKEN cDNA 4930502N02 gene, dpy-30-like protein
1093	16579	AA957143	bb		RIKEN cDNA 4930502N02 gene, dpy-30-like protein
2080	16580	AI168989	oo		RIKEN cDNA 4930502N02 gene, dpy-30-like protein
4243	23166	NM_138839	m, rr		RIKEN cDNA 4930579A11 gene, likely ortholog of rat vacuole membrane protein 1
3989	18826	NM_053523	x, ff, nn, ss		RIKEN cDNA 5031400M07 gene, homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1, hypothetical protein FLJ22313
539	21951	AA891535	f, s, pp		RIKEN cDNA 5730414C17 gene, hippocampus abundant gene transcript 1, hypothetical protein DKFZp564L0864 similar to HIAT1, hypothetical protein FLJ14753
4120	8592	NM_057137	q, xx		RIKEN cDNA 5730442K12 gene, emopamil binding protein (sterol isomerase), emopamil binding related protein, delta3-delta7 sterol isomerase related protein, phenylalkylamine Ca <sup>2+</sup> antagonist (emopamil) binding protein
1686	6370	AI059568	g		RIKEN cDNA 5830405C08 gene, Syntaxin 2, expressed sequence AU015105, syntaxin 1 b-like, syntaxin 1B1, syntaxin 1B2

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
516	16516	AA875563	x		RIKEN cDNA 6030455P07 gene, calumenin, reticulocalbin, reticulocalbin 1, EF-hand calcium binding domain, reticulocalbin 2, reticulocalbin 2, EF-hand calcium binding domain
471	17303	AA874990	u		RIKEN cDNA 6330407G11 gene, hypothetical protein FLJ10342
465	16082	AA874887	ww		RIKEN cDNA C030018L16 gene, SMC (segregation of mitotic chromosomes 1)-like 1 (yeast), SMC (structural maintenance of chromosomes 1)-like 2 (S. cerevisiae), SMC (structural maintenance of chromosomes 1)- like 1 (S. cerevisiae), SMC1 structural maintenance of chromosomes 1-like 1 (yeast), SMC4 structural maintenance of chromosomes 4-like 1 (yeast)
4090	16552	NM_053961	General		RIKEN cDNA C030022K24 gene, chromosome 12 open reading frame 8, endoplasmic reticulum protein 29
4090	16554	NM_053961	f		RIKEN cDNA C030022K24 gene, chromosome 12 open reading frame 8, endoplasmic reticulum protein 29
63	20995	AA799724	General		RNA polymerase 1-3 (16 kDa subunit), RNA polymerase I 16 kDa subunit
63	20996	AA799724	b, f, General, kk, nn, qq		RNA polymerase 1-3 (16 kDa subunit), RNA polymerase I 16 kDa subunit
2953	23485	K02816	ww		RNA polymerase II transcriptional coactivator, activated RNA polymerase II transcription cofactor 4
2953	23486	K02816	kk, ww		RNA polymerase II transcriptional coactivator, activated RNA polymerase II transcription cofactor 4
105	23329	AA800126	tt		RNA-binding region (RNP1, RRM) containing 2
1613	6609	AI045458	ii, tt		RNA-binding region (RNP1, RRM) containing 2
2843	14606	AI639342	d		S164 protein
2628	13645	AI232694	tt		SEC24 related gene family, member C (S. cerevisiae)
582	23862	AA891933	g		second mitochondria-derived activator of caspase
4142	6143	NM_080892	e		selenium binding protein 1, selenium binding protein 2
588	17088	AA891998	General, cc, oo, uu		sequestosome 1
232	5527	AA819027	gg, hh		serine hydroxymethyltransferase 1 (soluble)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
1326	9150	AI009198	h		serine/threonine kinase receptor associated protein, unr-interacting protein
824	22980	AA923973	y		seven in absentia 1A, seven in absentia 1B, seven in absentia 2, seven in absentia homolog 1 (Drosophila), seven in absentia homolog 2 (Drosophila)
2489	21822	AI228642	oo		seven transmembrane domain protein
4224	1440	NM_134456	u		SH2-B PH domain containing signaling mediator 1, SH2-B homolog, adaptor protein with pleckstrin homology and src, adaptor protein with pleckstrin homology and src homology 2 domains, src homology 2 domain-containing transforming protein C3
2196	7733	AI172086	z		SH3 domain binding glutamic acid-rich protein like 3, SH3 domain binding glutamic acid-rich protein-like 3
3788	11962	NM_031337	rr		sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase), sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)
3788	11963	NM_031337	xx		sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase), sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)
3637	18100	NM_022948	y		sideroflexin 1, sideroflexin 2, sideroflexin 3
2663	7888	AI233583	n, kk		similar to arginyl-tRNA synthetase
170	21437	AA801230	z		similar to HYPOTHETICAL 34.0 KDA PROTEIN ZK795.3 IN CHROMOSOME IV
4265	1674	NM_139086	e		similar to putative, syncollin
2166	11518	AI171272	e		similar to S. cerevisiae RER1
944	21600	AA943997	r		Sjogren's syndrome/scleroderma autoantigen 1, Sjogren's syndrome/scleroderma autoantigen 1 homolog (human)
208	6332	AA818406	u		Sm protein F
1169	2939	AA996885	ll		small inducible cytokine A19, small inducible cytokine subfamily A (Cys-Cys), member 19
3548	20269	NM_022214	bb		small inducible cytokine B subfamily, member 5, small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial-derived neutrophil-activating peptide 78), small inducible cytokine subfamily B (Cys-X-Cys), member 6 (granulocyte chemotactic protein 2)

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
3009	17123	M29295	nn, tt		small nuclear ribonucleoprotein B, small nuclear ribonucleoprotein polypeptides B and B1
1875	23538	A102727	l, n, p		solute carrier family 20 (phosphate transporter), member 1, solute carrier family 20 (phosphate transporter), member 2, solute carrier family 20, member 1, solute carrier family 20, member 2
641	17468	AA892545	General		solute carrier family 22 (organic cation transporter), member 1-like
3790	4346	NM_031343	k		solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2
3521	17340	NM_021594	General, dd		solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 1, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 2, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 2
469	15115	AA874928	r, v		sorting nexin 4
2769	11404	A1237002	v, w, bb		spermidine synthase, spermine synthase
2495	15078	A1228830	s		stearoyl-CoA desaturase (delta-9-desaturase), stearoyl-Coenzyme A desaturase 2
2731	20788	A1236053	qq		sterol O-acyltransferase 1, sterol O-acyltransferase 2
3580	2384	NM_022513	b, k, l, qq, uu, vv		sulfotransferase family 1B, member 1, sulfotransferase family, cytosolic, 1B, member 1
908	11691	AA926193	t, mm		sulfotransferase family, cytosolic, 1C, member 1
2077	11693	A168953	mm		sulfotransferase family, cytosolic, 1C, member 1
816	17096	AA901343	g		suppressor of G2 allele of SKP1, S. cerevisiae, homolog of
2051	12482	A144965	p		SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
660	4524	AA892759	f, s, ff, pp, qq, vv		synaptosomal-associated protein, 23kD
1005	13751	AA945699	kk		synaptosomal-associated protein, 23kD
3615	20509	NM_022689	f, cc, dd, ff		synaptosomal-associated protein, 23kD
3701	25130	NM_030991	k		synaptosomal-associated protein, 25 kDa, synaptosomal-associated protein, 25kD
1572	5431	A1044257	l		syndecan binding protein, syndecan binding protein (syntenin), syndecan binding protein (syntenin) 2, syntenin
2199	6057	A1172102	dd		syntaxin 18

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title
2713	22070	AI235528	jj		synuclein, gamma, synuclein, gamma (breast cancer-specific protein 1)
2042	6898	AI144623	p		thyroid hormone receptor interactor 3
2703	15004	AI235224	k		tissue inhibitor of metalloproteinase, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)
1623	6808	AI045600	a		TRAM-like protein, translocating chain-associating membrane protein
3899	16039	NM_031811	b, c, ee, xx		transaldolase 1
3264	24774	NM_013176	uu		transcription factor 12, transcription factor 12 (HTF4, helix-loop-helix transcription factors 4)
239	9000	AA819318	r		transcription factor-like 1
3971	13492	NM_053400	ss		transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila), transducin-like enhancer of split 1, homolog of Drosophila E(spl), transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila), transducin-like enhancer of split 2, homolog of Drosophila E(spl), transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila), transducin-like enhancer of split 3, homolog of Drosophila E(spl)
2071	23224	AI146033	h, z, ll		translocase of inner mitochondrial membrane 10 homolog (yeast), translocase of inner mitochondrial membrane 9 homolog (yeast)
155	19102	AA800794	ww		tripartite motif-containing 32
1125	2270	AA964116	s		tripartite motif-containing 37
911	14223	AA926352	h		TRK-fused gene, Trk-fused gene
2560	14224	AI230956	rr		TRK-fused gene, Trk-fused gene
188	2431	AA817945	ff		tubulin cofactor a, tubulin-specific chaperone a
617	17405	AA892313	ii, rr		tubulin-specific chaperone e
1432	5528	AI012631	bb, qq		tumor antigen SLP-8p
2033	14396	AI137689	s		tumor antigen SLP-8p
552	9090	AA891690	h, s		tumor necrosis factor (ligand) superfamily, member 13
2290	3619	AI176588	vv		tumor protein p53-binding protein
3399	707	NM_017293	b		U2 small nuclear ribonucleoprotein auxiliary factor (65kD), U2 small nuclear ribonucleoprotein auxiliary factor (U2AF), 65 kDa, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2, kinase interacting with leukemia-associated gene (stathmin)
630	16469	AA892462	j, mm		ubiquinol-cytochrome c reductase (6.4kD) subunit



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Human Homologous Gene Name	Human Homologous Cluster Title	
906	16468	AA926137	p, t, y, mm		ubiquinol-cytochrome c reductase (6.4kD) subunit	
1303	17359	AI007981	mm		ubiquinol-cytochrome c reductase complex (7.2 kD)	
1989	2501	AI112343	f, nn, ww		ubiquitin fusion degradation 1 like, ubiquitin fusion degradation 1-like	
1761	9259	AI071606	q		ubiquitin specific protease 1	
699	3877	AA893224	d		ubiquitin specific protease 19	
1104	18413	AA957763	ff		ubiquitin specific protease 19	
4149	18027	NM_130407	e		UDP glycosyltransferase 1 family, polypeptide A8	
4149	18028	NM_130407	e		UDP glycosyltransferase 1 family, polypeptide A8	
1272	13464	AF047707	f, ss		UDP-glucose ceramide glucosyltransferase	
3782	18597	NM_031325	y, uu		UDP-glucose dehydrogenase	
823	12354	AA923957	a, k, cc, tt		UDP-N-acetylglucosamine pyrophosphorylase 1	
693	14859	AA893173	e		vacuolar protein sorting 29 (S. pombe), vacuolar protein sorting 29 (yeast)	
2401	5887	AI179099	j, o		vanin 1	
4251	4593	NM_138881	a		vipirin, viral hemorrhagic septicemia virus(VHSV) induced gene 1	
4251	4594	NM_138881	a, qq		vipirin, viral hemorrhagic septicemia virus(VHSV) induced gene 1	
4251	4595	NM_138881	k		vipirin, viral hemorrhagic septicemia virus(VHSV) induced gene 1	
3792	18538	NM_031353	t, y, mm		voltage-dependent anion channel 1	
3792	18539	NM_031353	t, mm		voltage-dependent anion channel 1	
3533	17884	NM_021765	q		WD repeat domain 1, coatomer protein complex, subunit alpha, coatomer protein complex, subunit beta 2 (beta prime), expressed sequence AI256832	
3533	17885	NM_021765	q		WD repeat domain 1, coatomer protein complex, subunit alpha, coatomer protein complex, subunit beta 2 (beta prime), expressed sequence AI256832	
277	23355	AA848530	l, bb		WD repeat domain 12, retinoblastoma binding protein 4, retinoblastoma binding protein 7	
2728	3617	AI236021	d		X-box binding protein 1	
103	9202	AA800053	c		zinc finger protein 363	
3771	1201	NM_031150	v		zona pellucida glycoprotein 2, zona pellucida glycoprotein 2 (sperm receptor)	
4310	6824	NM_147138	ll, ss		ZW10 interactor	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
3242	24195	NM_013111	f, q	Actions of Nitric Oxide in the Heart	
3242	24196	NM_013111	f, l, q, z, General, dd	Actions of Nitric Oxide in the Heart	
3005	668	M25823	ij	Activation of Csk by cAMP-dependent Protein Kinase Inhibits Signaling through the T Cell Receptor, B Lymphocyte Cell Surface Molecules, Lck and Fyn tyrosine kinases in initiation of TCR Activation, Phosphatidylinositol signaling system, T Cytotoxic Cell Surface Molecules, T Helper Cell Surface Molecules	
3121	24545	NM_012713	s	Activation of PKC through G protein coupled receptor, Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Apoptotic Signaling in Response to DNA Damage, Attenuation of GPCR Signaling, BCR Signaling Pathway, Bioactive Peptide Induced Signaling Pathway, CCR3 signaling in Eosinophils, CXCR4 Signaling Pathway, EGF Signaling Pathway, Effects of calcitriol in Keratinocyte Differentiation, Fc Epsilon Receptor 1 Signaling in Mast Cells, Growth Hormone Signaling Pathway, Ion Channel and Phorbol Esters Signaling Pathway, Links between Pyk2 and Map Kinases, PDGF Signaling Pathway, PKC-catalyzed phosphorylation of inhibitory phosphoprotein of myosin phosphatase, Pertussis toxin-insensitive CCR5 Signaling in Macrophage, Phospholipase C Signaling Pathway, Phospholipase C d1 in phospholipid associated cell signaling, Regulation of eIF-4e and p70 S6 Kinase, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TPO Signaling Pathway, Thrombin signaling and protease-activated receptors, Transcription factor CREB and its extracellular signals, TrkA Receptor Signaling Pathway, egf, g-Secretase mediated ErbB4 Signaling Pathway, pdgf	
3193	2554	NM_012967	w	Adhesion Molecules on Lymphocyte, B Lymphocyte Cell Surface Molecules, CTL mediated immune response against target cells, Cells and Molecules involved in local acute inflammatory response, Monocyte and its Surface Molecules, Neutrophil and its Surface Molecules, T Cytotoxic Cell Surface Molecules, T Helper Cell Surface Molecules	
3193	2555	NM_012967	w	Adhesion Molecules on Lymphocyte, B Lymphocyte Cell Surface Molecules, CTL mediated immune response against target cells, Cells and Molecules involved in local acute inflammatory response, Monocyte and its Surface Molecules, Neutrophil and its Surface Molecules, T Cytotoxic Cell Surface Molecules, T Helper Cell Surface Molecules	
4394	25642	U77697	gg, hh	Adhesion Molecules on Lymphocyte, Cell to Cell Adhesion Signaling, Monocyte and its Surface Molecules, Neutrophil and its Surface Molecules	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
2330	14989	AI177366	b	Adhesion Molecules on Lymphocyte, Cells and Molecules involved in local acute inflammatory response, Erk and PI-3 Kinase Are Necessary for Collagen Binding in Corneal Epithelia, Erk1/Erk2 Mapk Signaling pathway, Integrin Signaling Pathway, Monocyte and its Surface Molecules, PTEN dependent cell cycle arrest and apoptosis, Ras-Independent pathway in NK cell-mediated cytotoxicity
4453	25090	X63594	ii	AKT Signaling Pathway, ATM Signaling Pathway, Acetylation and Deacetylation of RelA in The Nucleus, Activation of PKC through G protein coupled receptor, CD40L Signaling Pathway, Double Stranded RNA Induced Gene Expression, Erythropoietin mediated neuroprotection through NF-kB, HIV-1 Nef: negative effector of Fas and TNF, Induction of apoptosis through DR3 and DR4/5 Death Receptors, Influence of Ras and Rho proteins on G1 to S Transition, NF-kB Signaling Pathway, Neuropeptides VIP and PACAP inhibit the apoptosis of activated T cells, Signal transduction through IL1R, T Cell Receptor Signaling Pathway, TNF/Stress Related Signaling, TNFR2 Signaling Pathway, The 41BB-dependent immune response, Toll-Like Receptor Pathway, interact6-1
3222	16683	NM_013052	r	AKT Signaling Pathway, Cell Cycle: G2/M Checkpoint, Control of skeletal myogenesis by HDAC & calcium/calmodulin-dependent Kinase (CaMK), Multiple antiapoptotic pathways from IGF-1R signaling lead to BAD phosphorylation, RB Tumor Suppressor/Checkpoint Signaling in response to DNA damage, Regulation of BAD phosphorylation, Role of nicotinic acetylcholine receptors in the regulation of apoptosis, Signal Dependent Regulation of Myogenesis by Corepressor MITR, cdc25 and chk1 Regulatory Pathway in response to DNA damage
3222	16684	NM_013052	pp	AKT Signaling Pathway, Cell Cycle: G2/M Checkpoint, Control of skeletal myogenesis by HDAC & calcium/calmodulin-dependent Kinase (CaMK), Multiple antiapoptotic pathways from IGF-1R signaling lead to BAD phosphorylation, RB Tumor Suppressor/Checkpoint Signaling in response to DNA damage, Regulation of BAD phosphorylation, Role of nicotinic acetylcholine receptors in the regulation of apoptosis, Signal Dependent Regulation of Myogenesis by Corepressor MITR, cdc25 and chk1 Regulatory Pathway in response to DNA damage
3302	3202	NM_017039	t	AKT Signaling Pathway, ChREBP regulation by carbohydrates and cAMP, Erk1/Erk2 Mapk Signaling pathway, Inactivation of Gsk3 by AKT causes accumulation of b-catenin in Alveolar Macrophages, Regulation of ckl/clk5 by type 1 glutamate receptors, Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, WNT Signaling Pathway, mTOR Signaling Pathway

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SEQ ID NO	GLGC ID NO	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3302	3203	NM_017039	oo	AKT Signaling Pathway, CREBP regulation by carbohydrates and cAMP, Erk1/Erk2 Mapk Signaling pathway, Inactivation of Gsk3 by AKT causes accumulation of $\beta$ -catenin in Alveolar Macrophages, Regulation of cklcdk5 by type 1 glutamate receptors, Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, WNT Signaling Pathway, mTOR Signaling Pathway
1376	17524	A1010568	ss	AKT Signaling Pathway, Growth Hormone Signaling Pathway, Regulation of eIF4e and p70 S6 Kinase
873	21010	A4925306	o	Alanine and aspartate metabolism
3076	20744	NM_012571	e, ll, oo	Alanine and aspartate metabolism, Alkaloid biosynthesis I, Arginine and proline metabolism, Carbon fixation, Cysteine metabolism, Glutamate metabolism, Malate-aspartate shuttle, Phenylalanine metabolism, Phenylalanine, tyrosine and tryptophan biosynthesis, Tyrosine metabolism
3524	23424	NM_021680	x, z	Alanine and aspartate metabolism, Aminoacyl-tRNA biosynthesis
3233	1583	NM_013079	a, m, s, General, dd	Alanine and aspartate metabolism, Aminoacyl-tRNA biosynthesis, Nitrogen metabolism
3783	4234	NM_031330	m, ff	Alanine and aspartate metabolism, Arginine and proline metabolism, Urea cycle and metabolism of amino groups
4412	20597	X12459	b, ff	Alanine and aspartate metabolism, Arginine and proline metabolism, Urea cycle and metabolism of amino groups
3517	18727	NM_021577	g, m	Alanine and aspartate metabolism, Arginine and proline metabolism, Urea cycle and metabolism of amino groups
3724	21095	NM_031039	e	Alanine and aspartate metabolism, Carbon fixation, Glutamate metabolism
3132	1478	NM_012744	kk	Alanine and aspartate metabolism, Citrate cycle (TCA cycle), Pyruvate metabolism
3905	7914	NM_031835	b, h, l, General, nn	Alanine and aspartate metabolism, Glycine, serine and threonine metabolism
3103	24825	NM_012668	x, ee, ss	Alkaloid biosynthesis I, Phenylalanine metabolism, Phenylalanine, tyrosine and tryptophan biosynthesis, Tyrosine metabolism
4389	25083	U72632	nn	Alkaloid biosynthesis II, Arginine and proline metabolism, Glycine, serine and threonine metabolism, Histidine metabolism, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism, beta-Alanine metabolism
3092	23522	NM_012615	c, g, l, m, n, w, General, kk	Alkaloid biosynthesis II, Arginine and proline metabolism, Urea cycle and metabolism of amino groups
3092	23523	NM_012615	l, v	Alkaloid biosynthesis II, Arginine and proline metabolism, Urea cycle and metabolism of amino groups

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3440	7489	NM_019169	g	Alpha-synuclein and Parkin-mediated proteolysis in Parkinson's disease, Role of Parkin in Ubiquitin-Proteasomal Pathway
3287	1958	NM_016994	b, General, uu, vv	Alternative Complement Pathway, Cells and Molecules involved in local acute inflammatory response, Classic Complement Pathway, Complement Pathway, Lectin Induced Complement Pathway
3287	1959	NM_016994	f, u, uu	Alternative Complement Pathway, Cells and Molecules involved in local acute inflammatory response, Classic Complement Pathway, Complement Pathway, Lectin Induced Complement Pathway
231	5331	AA818996	ii, rr	Aminoacyl-tRNA biosynthesis, Glutamate metabolism
196	16756	AA818089	q, z	Aminoacyl-tRNA biosynthesis, Glycine, serine and threonine metabolism
735	12031	AA893860	General	Aminoacyl-tRNA biosynthesis, Glycine, serine and threonine metabolism
1096	2702	AA957307	i, l, p, z, General, dd, ii, pp, qq, rr	Aminoacyl-tRNA biosynthesis, Glycine, serine and threonine metabolism
4131	23129	NM_078622	t, ff	Aminophosphonate metabolism, Glycerolipid metabolism
3404	23130	NM_017307	j, z, General	Aminophosphonate metabolism, Glycerolipid metabolism, Shuttle for transfer of acetyl groups from mitochondria to the cytosol
4044	7927	NM_053765	e, t	Aminosugars metabolism
3745	1515	NM_031095	uu	Aminosugars metabolism
3745	1516	NM_031095	x	Aminosugars metabolism
3745	1517	NM_031095	ss	Aminosugars metabolism
3127	1372	NM_012734	xx	Aminosugars metabolism, Erythromycin biosynthesis, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Glycolysis Pathway, Starch and sucrose metabolism
3542	17100	NM_022179	d, h, l, ee	Aminosugars metabolism, Erythromycin biosynthesis, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Starch and sucrose metabolism
3542	17101	NM_022179	b, General, ii, kk, ss	Aminosugars metabolism, Erythromycin biosynthesis, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Starch and sucrose metabolism

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways		
3073	619	NM_012565	h, r, kk	Aminosugars metabolism, Erythromycin biosynthesis, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Starch and sucrose metabolism		
3300	24861	NM_017033	p, General	Aminosugars metabolism, Erythromycin biosynthesis, Galactose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway, Starch and sucrose metabolism, Streptomycin biosynthesis		
3300	24862	NM_017033	x, General	Aminosugars metabolism, Erythromycin biosynthesis, Galactose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway, Starch and sucrose metabolism, Streptomycin biosynthesis		
2020	23788	AI137176	ss	Aminosugars metabolism, Glycosaminoglycan degradation		
3678	713	NM_024391	pp	Androgen and estrogen metabolism		
3679	25070	NM_024392	o, General	Androgen and estrogen metabolism		
3679	9929	NM_024392	p, w, ss	Androgen and estrogen metabolism		
3679	9931	NM_024392	o, xx	Androgen and estrogen metabolism		
3372	21743	NM_017235	jj	Androgen and estrogen metabolism		
3372	21744	NM_017235	bb, ii, jj	Androgen and estrogen metabolism		
2946	20429	J05035	t, xx	Androgen and estrogen metabolism, Bile acid biosynthesis		
2946	20430	J05035	bb, qq	Androgen and estrogen metabolism, Bile acid biosynthesis		
4351	20431	S81448	qq, xx	Androgen and estrogen metabolism, Bile acid biosynthesis		
3080	17292	NM_012584	General, cc	Androgen and estrogen metabolism, C21-Steroid hormone metabolism		
3316	23660	NM_017080	a, i, vv	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Visceral Fat Deposits and the Metabolic Syndrome		
4112	5492	NM_057105	e	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism		
4112	5493	NM_057105	e	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism		
4112	15124	NM_057105	jj	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism		
4112	15126	NM_057105	t, jj	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
4112	15127	NM_057105	k, t, General, mm	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
3804	14633	NM_031533	b, l, s, General, w	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
4321	14632	NM_153314	f, uu	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
2894	15123	D38066	j, t, mm, xx	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
4321	11755	NM_153314	b, l, s, General, cc, vv	Androgen and estrogen metabolism, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
3166	16301	NM_012883	g, w, rr	Androgen and estrogen metabolism, Sulfur metabolism
3166	4282	NM_012883	rr	Androgen and estrogen metabolism, Sulfur metabolism
3115	18719	NM_012695	n, dd, ii, uu	Androgen and estrogen metabolism, Sulfur metabolism
3377	17562	NM_017245	h, t, mt	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Anthrax Toxin Mechanism of Action, Bioactive Peptide Induced Signaling Pathway, Erk1/Erk2 Mapk Signaling pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
4164	17560	NM_133283	e, t, mm	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Anthrax Toxin Mechanism of Action, Bioactive Peptide Induced Signaling Pathway, Erk1/Erk2 Mapk Signaling pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
4164	17564	NM_133283	ff	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Anthrax Toxin Mechanism of Action, Bioactive Peptide Induced Signaling Pathway, Erk1/Erk2 Mapk Signaling pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
4164	21848	NM_133283	v, y	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Anthrax Toxin Mechanism of Action, Bioactive Peptide Induced Signaling Pathway, Erk1/Erk2 Mapk Signaling pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
4164	21849	NM_133283	ff	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Anthrax Toxin Mechanism of Action, Bioactive Peptide Induced Signaling Pathway, Erk1/Erk2 Mapk Signaling pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
3098	20798	NM_012639	ll	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, BCR Signaling Pathway, Bioactive Peptide Induced Signaling Pathway, CCR3 signaling in Eosinophils, CXCR4, EGF & EPO signaling pathways, Erk and PI-3 Kinase Are Necessary for Collagen Binding In Corneal Epithelia, Erk1/Erk2 Mapk Signaling pathway, Fc Epsilon Receptor I Signaling in Mast Cells, Growth Hormone Signaling Pathway, IGF-1 Signaling Pathway, IL 2, 3 & 6 signaling pathways, IL-2 Receptor B Protein Interaction Pathway, Influence of Ras and Rho proteins on G1 to S Transition, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Multiple antiapoptotic pathways from IGF-1R signaling lead to BAD phosphorylation, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway, Ras Signaling Pathway, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TPO Signaling Pathway, egf, epo, igf-1, il2, il3, il6, insulin, interact6-1, ngf, pdgf, tpo



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3098	20799	NM_012639	p	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, BCR Signaling Pathway, Bioactive Peptide Induced Signaling Pathway, CCR3 signaling in Eosinophils, CXCR4, EGF & EPO signaling pathways, Erk and PI-3 Kinase Are Necessary for Collagen Binding in Corneal Epithelia, Erk1/Erk2 Mapk Signaling pathway, Fc Epsilon Receptor I Signaling in Mast Cells, Growth Hormone Signaling Pathway, IGF-1 Signaling Pathway, IL 2, 3 & 6 signaling pathways, IL-2 Receptor B Protein Interaction Pathway, Influence of Ras and Rho proteins on G1 to S Transition, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Multiple antiapoptotic pathways from IGF-1R signaling lead to BAD phosphorylation, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway, Ras Signaling Pathway, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TPO Signaling Pathway, egf, epo, igf-1, il2, il3, il6, insulin, interact6-1, ngf, pdgf, tpo
1908	2069	AI103616	bb	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, BCR Signaling Pathway, Influence of Ras and Rho proteins on G1 to S Transition, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Rac 1 cell motility signaling pathway, Ras Signaling Pathway, Ras-Independent pathway in NK cell-mediated cytotoxicity, Role of PI3K subunit p85 in regulation of Actin Organization and Cell Migration, T Cell Receptor Signaling Pathway, Transcription factor CREB and its extracellular signals, p38 MAPK Signaling Pathway
2985	21097	M12112	s	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Bioactive Peptide Induced Signaling Pathway
4222	21098	NM_134432	qq	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, Bioactive Peptide Induced Signaling Pathway
2647	17907	AI233224	t	Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, EGF Signaling Pathway, Erk1/Erk2 Mapk Signaling pathway, egf
3154	11138	NM_012839	jj	Apoptotic Signaling in Response to DNA Damage, Caspase Cascade in Apoptosis, D4-GDI Signaling Pathway, Electron-Transfer Reaction in Mitochondria, HIV-1 Nef: negative effector of Fas and TNF, Induction of apoptosis through DR3 and DR4/5 Death Receptors, Role of Mitochondria in Apoptotic Signaling
3179	776	NM_012922	u	Apoptotic Signaling in Response to DNA Damage, Caspase Cascade in Apoptosis, D4-GDI Signaling Pathway, FAS signaling pathway (CD95), HIV-1 Nef: negative effector of Fas and TNF, Induction of apoptosis through DR3 and DR4/5 Death Receptors, Role of Mitochondria in Apoptotic Signaling, TNFR1 Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
3179	777	NM_012922	z	Apoptotic Signaling in Response to DNA Damage, Caspase Cascade in Apoptosis, D4-GDI Signaling Pathway, FAS signaling pathway (CD95), HIV-1 Nef: negative effector of Fas and TNF, Induction of apoptosis through DR3 and DR4/5 Death Receptors , Role of Mitochondria in Apoptotic Signaling, TNFR1 Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell	
3887	16115	NM_031775	bb	Apoptotic Signaling in Response to DNA Damage, Caspase Cascade in Apoptosis, FAS signaling pathway (CD95), HIV-1 Nef: negative effector of Fas and TNF, Induction of apoptosis through DR3 and DR4/5 Death Receptors , Role of Mitochondria in Apoptotic Signaling	
1241	3081	AA999171	General	Apoptotic Signaling in Response to DNA Damage, EGF Signaling Pathway, IFN alpha signaling pathway, IFN gamma signaling pathway , IL22 Soluble Receptor Signaling Pathway , Inhibition of Cellular Proliferation by Gleevec, PDGF Signaling Pathway, TPO Signaling Pathway, egf, ifn_alpha, ifn_gamma, igf-1, p38 MAPK Signaling Pathway , pdgf, tpo	
3286	24897	NM_016993	pp	Apoptotic Signaling in Response to DNA Damage, HIV-1 Nef: negative effector of Fas and TNF, IL-2 Receptor B Protein Interaction Pathway, Induction of apoptosis through DR3 and DR4/5 Death Receptors , Inhibition of Cellular Proliferation by Gleevec, Regulation of BAD phosphorylation, Role of Mitochondria in Apoptotic Signaling, p53 Signaling Pathway	
3306	910	NM_017059	bb, ss	Apoptotic Signaling in Response to DNA Damage, Hypoxia and p53 in the Cardiovascular system, Regulation of BAD phosphorylation, Role of Mitochondria in Apoptotic Signaling, p53 Signaling Pathway	
3306	911	NM_017059	ss	Apoptotic Signaling in Response to DNA Damage, Hypoxia and p53 in the Cardiovascular system, Regulation of BAD phosphorylation, Role of Mitochondria in Apoptotic Signaling, p53 Signaling Pathway	
3306	912	NM_017059	qq	Apoptotic Signaling in Response to DNA Damage, Hypoxia and p53 in the Cardiovascular system, Regulation of BAD phosphorylation, Role of Mitochondria in Apoptotic Signaling, p53 Signaling Pathway	
991	22283	AA945172	mm	Arginine and proline metabolism	
3710	15682	NM_031011	a	Arginine and proline metabolism	
3710	15683	NM_031011	kk, oo	Arginine and proline metabolism	
166	11901	AA801058	l, nn	Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation, beta-Alanine metabolism	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways		
3570	20915	NM_022407	b, ff	Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation, beta-Alanine metabolism		
3873	23883	NM_031731	n, General, ee	Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation, beta-Alanine metabolism		
3873	23884	NM_031731	ii	Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation, beta-Alanine metabolism		
3934	12299	NM_032416	a, General	Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation, beta-Alanine metabolism		
3388	20914	NM_017272	j, o, v, w	Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation, beta-Alanine metabolism		
3075	4573	NM_012570	i, General	Arginine and proline metabolism, Catabolic Pathways for Arginine, Histidine, Glutamate, Glutamine, and Proline, D-Glutamine and D-glutamate metabolism, Glutamate metabolism, Nitrogen metabolism, Urea cycle and metabolism of amino groups		
3075	4574	NM_012570	h, i, p, General, dd, ii, uu	Arginine and proline metabolism, Catabolic Pathways for Arginine, Histidine, Glutamate, Glutamine, and Proline, D-Glutamine and D-glutamate metabolism, Glutamate metabolism, Nitrogen metabolism, Urea cycle and metabolism of amino groups		
3330	24693	NM_017134	a, b, i, General, cc	Arginine and proline metabolism, Catabolic Pathways for Arginine, Histidine, Glutamate, Glutamine, and Proline, Urea cycle and metabolism of amino groups		
3310	20649	NM_017072	b, General, kk, vv	Arginine and proline metabolism, Glutamate metabolism, Nitrogen metabolism, Urea cycle and metabolism of amino groups		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3310	20650	NM_017072	b, c, General, cc, kk, uu, vv	Arginine and proline metabolism, Glutamate metabolism, Nitrogen metabolism, Urea cycle and metabolism of amino groups
2879	18456	D00688	bb	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Histidine metabolism, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism
3271	21396	NM_013198	k, ji	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Histidine metabolism, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism
3142	16947	NM_012793	a, b, e, m, s, z, General, qq, uu, vv	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Urea cycle and metabolism of amino groups
3142	16948	NM_012793	qq, uu	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Urea cycle and metabolism of amino groups
3205	19391	NM_012998	t, y, mm	Arginine and proline metabolism, Hypoxia-Inducible Factor in the Cardiovascular System
3205	19392	NM_012998	i, gg, hh	Arginine and proline metabolism, Hypoxia-Inducible Factor in the Cardiovascular System
3205	19393	NM_012998	gg, hh, ll	Arginine and proline metabolism, Hypoxia-Inducible Factor in the Cardiovascular System
3232	13282	NM_013078	n, ji	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
3232	13283	NM_013078	h, i, m, s, General, cc, uu	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
3041	25467	M93297	t	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
3586	4242	NM_022521	xx	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
3549	20299	NM_022220	j	Ascorbate and aldarate metabolism

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3535	20162	NM_021835	u, tt	ATM Signaling Pathway, Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, BCR Signaling Pathway, D4-GDI Signaling Pathway, EGF Signaling Pathway, EPO Signaling Pathway, FAS signaling pathway (CD95), Fc Epsilon Receptor 1 Signaling in Mast Cells, Hypoxia-Inducible Factor in the Cardiovascular System, IGF-1 Signaling Pathway, IL 2 signaling pathway, IL 6 signaling pathway, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Signal transduction through IL1R, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TNF/Stress Related Signaling, TNFR1 Signaling Pathway, TPO Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell, The 41BB-dependent immune response, Toll-Like Receptor Pathway, egf, epo, igf-1, il2, il6, insulin, ngf, pdgf, tpo
3535	22350	NM_021835	tt	ATM Signaling Pathway, Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, BCR Signaling Pathway, D4-GDI Signaling Pathway, EGF Signaling Pathway, EPO Signaling Pathway, FAS signaling pathway (CD95), Fc Epsilon Receptor 1 Signaling in Mast Cells, Hypoxia-Inducible Factor in the Cardiovascular System, IGF-1 Signaling Pathway, IL 2 signaling pathway, IL 6 signaling pathway, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Signal transduction through IL1R, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TNF/Stress Related Signaling, TNFR1 Signaling Pathway, TPO Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell, The 41BB-dependent immune response, Toll-Like Receptor Pathway, egf, epo, igf-1, il2, il6, insulin, ngf, pdgf, tpo

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TABLE 3

SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3535	22351	NM_021835	kk, tt	ATM Signaling Pathway, Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, BCR Signaling Pathway, D4-GDI Signaling Pathway, EGF Signaling Pathway, EPO Signaling Pathway, FAS signaling pathway ( CD95 ), Fc Epsilon Receptor I Signaling in Mast Cells, Hypoxia-Inducible Factor in the Cardiovascular System, IGF-1 Signaling Pathway, IL 2 signaling pathway, IL 6 signaling pathway, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Signal transduction through IL1R, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TNF/Stress Related Signaling, TNFR1 Signaling Pathway, TPO Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell, The 41BB-dependent immune response, Toll-Like Receptor Pathway, egf, epo, igf-1, il2, il6, insulin, ngf, pdgf, tpo
3535	22352	NM_021835	y, kk, ss, tt	ATM Signaling Pathway, Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling, BCR Signaling Pathway, D4-GDI Signaling Pathway, EGF Signaling Pathway, EPO Signaling Pathway, FAS signaling pathway ( CD95 ), Fc Epsilon Receptor I Signaling in Mast Cells, Hypoxia-Inducible Factor in the Cardiovascular System, IGF-1 Signaling Pathway, IL 2 signaling pathway, IL 6 signaling pathway, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Integrin Signaling Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Signal transduction through IL1R, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TNF/Stress Related Signaling, TNFR1 Signaling Pathway, TPO Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell, The 41BB-dependent immune response, Toll-Like Receptor Pathway, egf, epo, igf-1, il2, il6, insulin, ngf, pdgf, tpo

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	
4137	132	NM_080782	ll, tt	ATM Signaling Pathway, Cell Cycle: G1/S Check Point, Cell Cycle: G2/M Checkpoint, Cyclins and Cell Cycle Regulation, Effects of calcinurin in Keratinocyte Differentiation, Erythropoietin mediated neuroprotection through NF-kB, Hypoxia and p53 in the Cardiovascular system, Influence of Ras and Rho proteins on G1 to S Transition, p53 Signaling Pathway
4137	133	NM_080782	p, ll, ss	ATM Signaling Pathway, Cell Cycle: G1/S Check Point, Cell Cycle: G2/M Checkpoint, Cyclins and Cell Cycle Regulation, Effects of calcinurin in Keratinocyte Differentiation, Erythropoietin mediated neuroprotection through NF-kB, Hypoxia and p53 in the Cardiovascular system, Influence of Ras and Rho proteins on G1 to S Transition, p53 Signaling Pathway
3699	17377	NM_030989	jj	ATM Signaling Pathway, Cell Cycle: G1/S Check Point, Cell Cycle: G2/M Checkpoint, Double Stranded RNA Induced Gene Expression, Hypoxia and p53 in the Cardiovascular system, Overview of telomerase protein component gene hTert Transcriptional Regulation, RB Tumor Suppressor/Checkpoint Signaling in response to DNA damage, p53 Signaling Pathway
3650	352	NM_024127	s, General	ATM Signaling Pathway, Cell Cycle: G2/M Checkpoint, Hypoxia and p53 in the Cardiovascular system, p53 Signaling Pathway
3650	353	NM_024127	n, z, General, ee, kk, gg, ww	ATM Signaling Pathway, Cell Cycle: G2/M Checkpoint, Hypoxia and p53 in the Cardiovascular system, p53 Signaling Pathway
3650	354	NM_024127	n, f, General, gg, vv	ATM Signaling Pathway, Cell Cycle: G2/M Checkpoint, Hypoxia and p53 in the Cardiovascular system, p53 Signaling Pathway
913	10569	AA942681	n, z, General	ATP Synthesis, Oxidative phosphorylation
4074	20939	NM_053884	l, m, s, General, bb, qq, uu	ATP Synthesis, Oxidative phosphorylation
82	16346	AA799824	a, e, f, s, General, kk, oo	ATP Synthesis, Oxidative phosphorylation

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3406	16844	NM_017311	r	ATP Synthesis, Oxidative phosphorylation
4271	17203	NM_139099	pp	ATP Synthesis, Oxidative phosphorylation
4271	17204	NM_139099	p, x, mm	ATP Synthesis, Oxidative phosphorylation
705	17754	AA893246	a, w	ATP Synthesis, Oxidative phosphorylation
2336	8949	AI177593	l,	ATP Synthesis, Oxidative phosphorylation
			General	
2096	22661	AI169265	t, mm	ATP Synthesis, Oxidative phosphorylation
3892	16178	NM_031785	ii	ATP Synthesis, Oxidative phosphorylation
3501	22726	NM_019383	r	ATP Synthesis, Oxidative phosphorylation
590	2107	AA892006	e	ATP Synthesis, Oxidative phosphorylation
1517	2108	AI029960	ee	ATP Synthesis, Oxidative phosphorylation
2089	17914	AI169159	ii	ATP Synthesis, Oxidative phosphorylation
2264	10182	AI176185	tt	BCR Signaling Pathway, EGF Signaling Pathway, EPO Signaling Pathway, Fc Epsilon Receptor 1 Signaling in Mast Cells, IGF-1 Signaling Pathway, IL 2 signaling pathway, IL 3 signaling pathway, IL 6 signaling pathway, IL-2 Receptor B Protein Interaction Pathway, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TPO Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell, Toll-Like Receptor Pathway, egf, epo, igf-1, il2, il3, il6, insulin, ngf, pdgf, tpo
3312	18957	NM_017075	o, xx	Benzoate degradation, Bile acid biosynthesis, Butanoate metabolism, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Tryptophan metabolism
3312	18958	NM_017075	o, jj	Benzoate degradation, Bile acid biosynthesis, Butanoate metabolism, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Tryptophan metabolism
1967	23596	AI105435	uu, vv	Benzoate degradation, Fatty acid metabolism, Lysine degradation, Tryptophan metabolism
2731	20788	AI236053	qq	Bile acid biosynthesis
1083	23700	AA956382	ff	Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Valine, leucine and isoleucine degradation
3046	23698	NM_012489	o, xx	Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Valine, leucine and isoleucine degradation



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code		
3046	23699	NM_012489	o, u, v, ss	Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Valine, leucine and isoleucine degradation	
464	16074	AA874874	t	Bile acid biosynthesis, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Methane metabolism, Pyruvate metabolism, Tyrosine metabolism	
3477	22219	NM_019286	c, w	Bile acid biosynthesis, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Tyrosine metabolism	
4159	22220	NM_130780	w	Bile acid biosynthesis, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Tyrosine metabolism	
74	1680	AA799792	gg, hh	Bile acid biosynthesis, Glycerolipid metabolism	
3125	16613	NM_012732	c	Bile acid biosynthesis, Glycerolipid metabolism	
3125	10260	NM_012732	y	Bile acid biosynthesis, Glycerolipid metabolism	
3401	1531	NM_017300	General, ff, rr, uu	Bile acid biosynthesis, Taurine and hypotaurine metabolism	
3047	265	NM_012494	gg, hh, jj	Bioactive Peptide Induced Signaling Pathway	
3364	13938	NM_017212	g	Bioactive Peptide Induced Signaling Pathway	
3800	12580	NM_031514	m, v	Bioactive Peptide Induced Signaling Pathway, EPO Signaling Pathway, Erythropoietin mediated neuroprotection through NF-kB, Growth Hormone Signaling Pathway, IFN gamma signaling pathway, IL 3 signaling pathway, IL 6 signaling pathway, IL22 Soluble Receptor Signaling Pathway, Inhibition of Cellular Proliferation by Gleevec, Stat3 Signaling Pathway, TPO Signaling Pathway, epo, ifn_gamma, il3, il6, interact6-1, pdgfr, tpo	
3630	24838	NM_022924	tt	Bioactive Peptide Induced Signaling Pathway, Thrombin signaling and protease-activated receptors, Transcriptional activation of dbpb from mRNA	
3776	1963	NM_031236	xx	Blood group glycolipid biosynthesis - lact series, Blood group glycolipid biosynthesis - neolact series, Globoside metabolism	
1913	23829	AI103754	h	Blood group glycolipid biosynthesis - neolact series, Galactose metabolism, Keratan sulfate biosynthesis, N-Glycans biosynthesis	
1890	11486	AI103162	j	Blood group glycolipid biosynthesis - neolact series, Galactose metabolism, Keratan sulfate biosynthesis, N-Glycans biosynthesis	
4482	20426	Z12158	ff, gg, hh	Butanoate metabolism, Glycolysis / Gluconeogenesis, Pyruvate metabolism, Shuttle for transfer of acetyl groups from mitochondria to the cytosol, Valine, leucine and isoleucine biosynthesis	
668	11997	AA892828	ll	Butanoate metabolism, Glycolysis / Gluconeogenesis, Pyruvate metabolism, Valine, leucine and isoleucine biosynthesis	
1098	12000	AA957319	bb	Butanoate metabolism, Glycolysis / Gluconeogenesis, Pyruvate metabolism, Valine, leucine and isoleucine biosynthesis	
2259	5876	AI176117	oo	Butanoate metabolism, Glycolysis / Gluconeogenesis, Pyruvate metabolism, Valine, leucine and isoleucine biosynthesis	
4213	8692	NM_134387	e	Butanoate metabolism, Pentose and glucuronate interconversions	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3386	20600	NM_017268	q, w, jj	Butanoate metabolism, SREBP and controls lipid synthesis, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
3386	20601	NM_017268	q, w, jj	Butanoate metabolism, SREBP and controls lipid synthesis, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
4101	17739	NM_053995	h, General, qq	Butanoate metabolism, Synthesis and degradation of ketone bodies
1957	18278	AI105080	m	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
3677	2811	NM_024386	jj	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
3677	2812	NM_024386	rr	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
3677	2813	NM_024386	o, ii	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
3772	164	NM_031151	v	Carbon fixation, Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism, Reductive carboxylate cycle (CO2 fixation)
1938	18277	AI104399	t	Carbon fixation, Fructose and mannose metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Glycolysis Pathway, Inositol metabolism
624	820	AA892395	a, s, ss, uu	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Glycolysis Pathway, Pentose phosphate pathway
4404	818	X02291	a, s, ff, qq, tt, uu	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Glycolysis Pathway, Pentose phosphate pathway
3048	7062	NM_012495	t, bb, mm	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway
3048	7064	NM_012495	s	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway
3049	1655	NM_012497	n	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway
3070	16895	NM_012558	a, cc, gg, hh, ss, uu	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway
3952	1311	NM_053291	j, s, t	Carbon fixation, Glycolysis / Gluconeogenesis, Glycolysis Pathway
3597	20803	NM_022592	l, r	Carbon fixation, Pentose phosphate pathway
1304	17353	AI008021		Carbon fixation, Pyruvate metabolism, Shuttle for transfer of acetyl groups from mitochondria to the cytosol

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
3087	18746	NM_012600	gg, hh	Carbon fixation, Pyruvate metabolism, Shuttle for transfer of acetyl groups from mitochondria to the cytosol	
3074	20717	NM_012569	c	Catabolic Pathways for Arginine, Histidine, Glutamate, and Proline, D-Glutamine and D-glutamate metabolism, Glutamate metabolism, Nitrogen metabolism	
2455	21296	A1227641	j	CCR3 signaling in Eosinophils, Erk and PI-3 Kinase Are Necessary for Collagen Binding in Corneal Epithelia, PKC-catalyzed phosphorylation of inhibitory phosphoprotein of myosin phosphatase, Rac 1 cell motility signaling pathway, Rho cell motility signaling pathway	
2712	2241	A1235500	ss	CCR3 signaling in Eosinophils, Rac 1 cell motility signaling pathway, Rho cell motility signaling pathway	
3337	15364	NM_017147	j	CCR3 signaling in Eosinophils, Rac 1 cell motility signaling pathway, Rho cell motility signaling pathway	
4046	15995	NM_053769	r, ff	CD40L Signaling Pathway, Phosphatidylinositol signaling system, TNFR2 Signaling Pathway	
4046	15996	NM_053769	n, ff, kk	CD40L Signaling Pathway, Phosphatidylinositol signaling system, TNFR2 Signaling Pathway	
4046	15997	NM_053769	d, n, r, w, y	CD40L Signaling Pathway, Phosphatidylinositol signaling system, TNFR2 Signaling Pathway	
4143	13424	NM_080899	ww	CD40L Signaling Pathway, TNFR2 Signaling Pathway	
1094	24230	AA957218	ij	Cell Cycle: G1/S Check Point, Cyclins and Cell Cycle Regulation, Inactivation of Gsk3 by AKT causes accumulation of b-catenin in Alveolar Macrophages, Influence of Ras and Rho proteins on G1 to S Transition, WNT Signaling Pathway, p53 Signaling Pathway	
3932	590	NM_032080	b, c, m, kk	Cell Cycle: G1/S Check Point, Inactivation of Gsk3 by AKT causes accumulation of b-catenin in Alveolar Macrophages, Presenilin action in Notch and Wnt signaling, Regulation of eIF2, Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, WNT Signaling Pathway, il2	
3932	591	NM_032080	b, c, l, z, General, tt, vv	Cell Cycle: G1/S Check Point, Inactivation of Gsk3 by AKT causes accumulation of b-catenin in Alveolar Macrophages, Presenilin action in Notch and Wnt signaling, Regulation of eIF2, Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, WNT Signaling Pathway, il2	
4361	1392	U10188	j	Cell Cycle: G2/M Checkpoint	
73	13683	AA799788	s	Cell Cycle: G2/M Checkpoint, Cyclin E Destruction Pathway, E2F1 Destruction Pathway	
2979	13682	L38482	p	Cell Cycle: G2/M Checkpoint, Cyclin E Destruction Pathway, E2F1 Destruction Pathway	
3705	21165	NM_031005	mm	Cell to Cell Adhesion Signaling, Integrin Signaling Pathway	
3705	21166	NM_031005	t, mm	Cell to Cell Adhesion Signaling, Integrin Signaling Pathway	
1251	4307	AB012600	s	Circadian Rhythms	
1259	4308	AF015953	ww	Circadian Rhythms	
4025	23305	NM_053638	jj	Citrate cycle (TCA cycle)	
3797	17427	NM_031510	p	Citrate cycle (TCA cycle), Glutathione metabolism, Reductive carboxylate cycle (CO2 fixation)	
2706	19995	A1235320	p, t	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Reductive carboxylate cycle (CO2 fixation)	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
3681	19993	NM_024398	o, xx	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Reductive carboxylate cycle (CO2 fixation)	
4090	19991	NM_053961	cc	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Reductive carboxylate cycle (CO2 fixation)	
3410	17516	NM_017321	o, ii, jj, tt	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Reductive carboxylate cycle (CO2 fixation)	
886	17513	AA925554	h, u	Citrate cycle (TCA cycle), Oxidative phosphorylation	
4153	17512	NM_130428	w	Citrate cycle (TCA cycle), Oxidative phosphorylation	
4042	18174	NM_053752	o	Citrate cycle (TCA cycle), Propanoate metabolism	
3290	15620	NM_017337	ee	Citrate cycle (TCA cycle), Reductive carboxylate cycle (CO2 fixation)	
3283	15612	NM_016987	ii, ll, ww	Citrate cycle (TCA cycle), Shuttle for transfer of acetyl groups from mitochondria to the cytosol	
3283	15613	NM_016987	ii, ll, ww	Citrate cycle (TCA cycle), Shuttle for transfer of acetyl groups from mitochondria to the cytosol	
163	15852	AA800942	gg, hh	Classic Complement Pathway, Complement Pathway, Lecin Induced Complement Pathway	
4377	15851	U42719	vv	Classic Complement Pathway, Complement Pathway, Lecin Induced Complement Pathway	
2992	21053	M15481	qq	Control of skeletal myogenesis by HDAC & calcitriol/calmodulin-dependent kinase (CaMK), Erythrocyte Differentiation Pathway, IGF-1 Signaling Pathway, Regulation of BAD phosphorylation, Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, IGF-1	
4406	21054	X06107	g, v	Control of skeletal myogenesis by HDAC & calcitriol/calmodulin-dependent kinase (CaMK), Erythrocyte Differentiation Pathway, IGF-1 Signaling Pathway, Regulation of BAD phosphorylation, Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, IGF-1	
4245	16354	NM_138843	v, xx	Cysteine metabolism	
3950	25024	NM_052809	b, o, w	Cysteine metabolism, Taurine and hypotaurine metabolism	
3950	15028	NM_052809	b, qq, vv	Cysteine metabolism, Taurine and hypotaurine metabolism	
3246	14300	NM_013129	pp	Cytokine Network, Cytokines and Inflammatory Response	
1454	1332	A013222	mm	Cytokines and Inflammatory Response, PDGF Signaling Pathway, pdgf	
3291	8417	NM_017008	l	D-Arginine and D-ornithine metabolism, Glycolysis / Gluconeogenesis, Glycolysis Pathway	
3334	24105	NM_017141	a	DNA polymerase, Purine metabolism, Pyrimidine metabolism	
3334	24107	NM_017141	d, g	DNA polymerase, Purine metabolism, Pyrimidine metabolism	
1626	24336	A045621	r	Effects of calcitriol in Keratinocyte Differentiation	
1667	10138	A059048	m	Effects of calcitriol in Keratinocyte Differentiation, Overview of telomerase RNA component gene hTerc Transcriptional Regulation, Overview of telomerase protein component gene hTert Transcriptional Regulation	
2869	25233	A059048	p, mm	EGF Signaling Pathway, IFN alpha signaling pathway, IFN gamma signaling pathway, IL 2 signaling pathway, IL 4 signaling pathway, IL-2 Receptor B Protein Interaction Pathway, PDGF Signaling Pathway, pdgf	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code		
3558	1914	NM_022380	g	egf, epo, il2, il3, tpo	
3088	2628	NM_012603	f, i, y, z, General	Erk1/Erk2 Mapk Signaling pathway, IL-2 Receptor B Protein Interaction Pathway, Inhibition of Cellular Proliferation by Gleevec, Neuropeptides VIP and PACAP inhibit the apoptosis of activated T cells, Overview of telomerase protein component gene hTert Transcriptional Regulation, WNT Signaling Pathway, p38 MAPK Signaling Pathway	
3088	2629	NM_012603	f, i, l, z, General, nn	Erk1/Erk2 Mapk Signaling pathway, IL-2 Receptor B Protein Interaction Pathway, Inhibition of Cellular Proliferation by Gleevec, Neuropeptides VIP and PACAP inhibit the apoptosis of activated T cells, Overview of telomerase protein component gene hTert Transcriptional Regulation, WNT Signaling Pathway, p38 MAPK Signaling Pathway	
2571	19288	A1231305	e	Erk1/Erk2 Mapk Signaling pathway, PDGF Signaling Pathway, Rac 1 cell motility signaling pathway, Role of PI3K subunit p85 in regulation of Actin Organization and Cell Migration, pdgf	
3211	208	NM_013025	vv	Erythrocyte Differentiation Pathway, Selective expression of chemokine receptors during T-cell polarization	
2724	21414	A1235842	x	Erythropoietin mediated neuroprotection through NF-kB	
3668	1146	NM_024359	a, m	Erythropoietin mediated neuroprotection through NF-kB, Hypoxia and p53 in the Cardiovascular system, Hypoxia-Inducible Factor in the Cardiovascular System	
3668	1148	NM_024359	a	Erythropoietin mediated neuroprotection through NF-kB, Hypoxia and p53 in the Cardiovascular system, Hypoxia-Inducible Factor in the Cardiovascular System	
4148	8167	NM_130406	q, ll	FAS signaling pathway (CD95)	
3413	24247	NM_017332	n, rr	Fatty acid biosynthesis (path 1)	
2880	18686	D00729	o, ff, jj	Fatty acid metabolism	
3149	6780	NM_012819	n	Fatty acid metabolism	
3403	18685	NM_017306	o	Fatty acid metabolism	
3403	18687	NM_017306	o, ff, rr	Fatty acid metabolism	
4016	15925	NM_053607	m	Fatty acid metabolism	
4113	3743	NM_057107	nn	Fatty acid metabolism	
704	20986	AA893242	o	Fatty acid metabolism	
1596	20983	A1044900	o, v	Fatty acid metabolism	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
2901	20984	D90109	o, gg, hh, oo, uu	Fatty acid metabolism
4022	13005	NM_053623	a	Fatty acid metabolism
3416	16148	NM_017340	o, y, ji, ss, xx	Fatty acid metabolism
3416	16150	NM_017340	o, ji	Fatty acid metabolism
3273	20854	NM_013200	i, nn	Fatty acid metabolism, Glycerolipid metabolism
3273	20856	NM_013200	o, ji	Fatty acid metabolism, Glycerolipid metabolism
3182	1977	NM_012930	o, p, y, ff, xx	Fatty acid metabolism, Glycerolipid metabolism, Mitochondrial Carnitine Palmitoyltransferase (CPT) System
3813	15411	NM_031559	o, y, ff	Fatty acid metabolism, Glycerolipid metabolism, Mitochondrial Carnitine Palmitoyltransferase (CPT) System, Reversal of Insulin Resistance by Leptin
3282	21078	NM_016986	i, o, ss	Fatty acid metabolism, Propanoate metabolism, Valine, leucine and isoleucine degradation, beta-Alanine metabolism
835	20711	AA924267	o	Fatty acid metabolism, Tryptophan metabolism
1194	20712	AA997806	b, uu	Fatty acid metabolism, Tryptophan metabolism
2991	20714	M14972	o, r	Fatty acid metabolism, Tryptophan metabolism
3019	20713	M57718	o, r, xx	Fatty acid metabolism, Tryptophan metabolism
3064	488	NM_012540	j, w	Fatty acid metabolism, Tryptophan metabolism
3064	489	NM_012540	e, tt	Fatty acid metabolism, Tryptophan metabolism
3064	20705	NM_012540	j	Fatty acid metabolism, Tryptophan metabolism
3065	20703	NM_012541	xx	Fatty acid metabolism, Tryptophan metabolism
3186	190	NM_012940	e	Fatty acid metabolism, Tryptophan metabolism
3186	191	NM_012940	e	Fatty acid metabolism, Tryptophan metabolism
3186	192	NM_012940	e	Fatty acid metabolism, Tryptophan metabolism
3186	193	NM_012940	e, v	Fatty acid metabolism, Tryptophan metabolism
3187	20928	NM_012941	ee	Fatty acid metabolism, Tryptophan metabolism
3187	20929	NM_012941	jj	Fatty acid metabolism, Tryptophan metabolism
3187	20931	NM_012941	uu	Fatty acid metabolism, Tryptophan metabolism

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SEQ ID NO.	GLGC ID/NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
4408	20715	X07259	o, xx	Fatty acid metabolism, Tryptophan metabolism
3831	67	NM_031605	cc	Fatty acid metabolism, Tryptophan metabolism
3124	18730	NM_012730	a, j	Fatty acid metabolism, Tryptophan metabolism
3343	2968	NM_017158	n	Fatty acid metabolism, Tryptophan metabolism
3343	2970	NM_017158	f, rr, ss.	Fatty acid metabolism, Tryptophan metabolism
3505	20716	NM_019623	b, l,	Fatty acid metabolism, Tryptophan metabolism
			General, gg, hh, ll, uu	
3817	15024	NM_031572	General, ll, qq	Fatty acid metabolism, Tryptophan metabolism
3817	15025	NM_031572	bb, qq	Fatty acid metabolism, Tryptophan metabolism
3482	1099	NM_019303	y	Fatty acid metabolism, Tryptophan metabolism
3807	4010	NM_031543	e, r	Fatty acid metabolism, Tryptophan metabolism
3807	4011	NM_031543	j, w	Fatty acid metabolism, Tryptophan metabolism
3807	4012	NM_031543	e, rr	Fatty acid metabolism, Tryptophan metabolism
209	12160	AA818412	o, qq	Fatty acid metabolism, Tryptophan metabolism
2948	12156	K00996	o	Fatty acid metabolism, Tryptophan metabolism
2950	12157	K01721	o	Fatty acid metabolism, Tryptophan metabolism
4312	683	NM_147206	ii	Fatty acid metabolism, Tryptophan metabolism
3012	16305	M33312	o,	Fatty acid metabolism, Tryptophan metabolism
			General	
3113	16306	NM_012692	uu	Fatty acid metabolism, Tryptophan metabolism
3114	24707	NM_012693	c, r, s	Fatty acid metabolism, Tryptophan metabolism
3443	1173	NM_019184	j, rr	Fatty acid metabolism, Tryptophan metabolism
3443	1174	NM_019184	rr	Fatty acid metabolism, Tryptophan metabolism
3743	1175	NM_031093	x, xx	Fatty acid metabolism, Tryptophan metabolism
4002	19252	NM_053576	x	Flavonoids, stilbene and lignin biosynthesis, Methane metabolism, Phenylalanine metabolism
3667	15350	NM_024356	p	Folate biosynthesis



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3564	13479	NM_022390	e, y, xx	Folate biosynthesis
3564	13480	NM_022390	r, ss	Folate biosynthesis
3017	21399	M36410	General	Folate biosynthesis
3017	21400	M36410	n, x, General, dd, ee	Folate biosynthesis
3225	14996	NM_013059	x	Folate biosynthesis, Glycerolipid metabolism
3225	14997	NM_013059	f, ff, kk	Folate biosynthesis, Glycerolipid metabolism
3304	20876	NM_017050	k, tt	Free Radical Induced Apoptosis
2980	6406	L38615	v	Free Radical Induced Apoptosis, Glutamate metabolism, Glutathione metabolism
3689	1853	NM_030826	g	Free Radical Induced Apoptosis, Glutathione metabolism
4206	17112	NM_134326	ee	Free Radical Induced Apoptosis, Glutathione metabolism
3342	21975	NM_017154	l	Free Radical Induced Apoptosis, Purine metabolism
3305	1877	NM_017052	w	Fructose and mannose metabolism
3913	16726	NM_031855	General, dd	Fructose and mannose metabolism
2312	15588	A1176916	dd	Fructose and mannose metabolism
2975	12058	L25387	t	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway
3870	1339	NM_031715	e, bb	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway
3289	1300	NM_013190	t	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate pathway
3529	19712	NM_021745	t, General, ff, kk, oo	FXR and LXR Regulation of Cholesterol Metabolism
3876	1214	NM_031741	z, jj	FXR and LXR Regulation of Cholesterol Metabolism
3841	1639	NM_031627	c, x, General, ss	FXR and LXR Regulation of Cholesterol Metabolism
1076	24289	AA955986	t	Galactose metabolism
4138	25693	NM_080783	jj, xx	Galactose metabolism, Leloir pathway of galactose metabolism, Nucleotide sugars metabolism



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
2143	17027	A1170679	xx	Galactose metabolism, Nucleotide sugars metabolism, Pentose and glucuronate interconversions, Starch and sucrose metabolism	
4483	19694	Z48444	ee	Generation of amyloid b-peptide by PS1	
250	10157	A4819527	rr	Generation of amyloid b-peptide by PS1	
2352	10156	A1178039	bb	Generation of amyloid b-peptide by PS1	
4410	10154	X07648	m	Generation of amyloid b-peptide by PS1	
3438	20256	NM_019163	ii	Generation of amyloid b-peptide by PS1, HIV-1 Nef: negative effector of Fas and TNF, Presenilin action in Notch and Wnt signaling, Proteolysis and Signaling Pathway of Notch, g-Secretase mediated ErbB4 Signaling Pathway	
2947	1247	J05181	w	Glutamate metabolism, Glutathione metabolism	
3402	14002	NM_017305	qq	Glutamate metabolism, Glutathione metabolism	
3402	14003	NM_017305	qq, w	Glutamate metabolism, Glutathione metabolism	
3311	11152	NM_017073	q, z	Glutamate metabolism, Nitrogen metabolism	
3311	11153	NM_017073	q, r, s, z,	Glutamate metabolism, Nitrogen metabolism	
			rr		
3143	961	NM_012796	p	Glutathione metabolism	
3953	1524	NM_053293	General	Glutathione metabolism	
2689	16781	A1234527	ll, qq	Glutathione metabolism	
4449	16780	X62660	b, m, qq, vv	Glutathione metabolism	
1246	14583	AB008807	dd, uu	Glutathione metabolism	
3292	18989	NM_017013	qq, vv	Glutathione metabolism	
3347	17686	NM_017165	o	Glutathione metabolism	
3796	18990	NM_031509	e	Glutathione metabolism	
1429	20817	A1012589	c	Glutathione metabolism	
4397	23926	U86635	d, oo	Glutathione metabolism	
3796	635	NM_031509	vv	Glutathione metabolism	
2926	21011	H32189	nn	Glutathione metabolism	

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SEQ. ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways		
2942	21012	J02592	b, l, General, gg, fh, kk, ll	Glutathione metabolism		
2945	21014	J03914	b, l, o, x, General, ll, rr	Glutathione metabolism		
3293	21013	NM_017014	cc	Glutathione metabolism		
3293	21015	NM_017014	s, cc	Glutathione metabolism		
1246	25148	AB008807	bb	Glutathione metabolism		
2084	17812	A169075	uu	Glutathione metabolism, Styrene degradation, Tyrosine metabolism		
3085	2505	NM_012597	w	Glycerolipid metabolism		
3328	1305	NM_017127	oo	Glycerolipid metabolism		
3328	1306	NM_017127	f, l, General, kk, qq, vv	Glycerolipid metabolism		
3673	20380	NM_024381	o	Glycerolipid metabolism		
1210	14149	AA998172	y	Glycerolipid metabolism		
3973	6773	NM_053410	rr	Glycerolipid metabolism		
4028	7228	NM_053654	jj	Glycerolipid metabolism		
3352	3512	NM_017177	d, o, q, v, dd	Glycerolipid metabolism		
3352	3513	NM_017177	d, n, dd	Glycerolipid metabolism		
3389	17715	NM_017274	ss, xx	Glycerolipid metabolism		
3389	20282	NM_017274	y	Glycerolipid metabolism		
3259	200	NM_013161	k, v	Glycerolipid metabolism		
3778	8149	NM_031242	ii	Glycerolipid metabolism		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3979	14621	NM_053437	o, ss	Glycerolipid metabolism
3317	1550	NM_017084	uu	Glycine, serine and threonine metabolism
3317	1551	NM_017084	uu	Glycine, serine and threonine metabolism
3317	1552	NM_017084	g, uu	Glycine, serine and threonine metabolism
3686	21039	NM_024484	ii	Glycine, serine and threonine metabolism
3207	24718	NM_013003	tt	Glycine, serine and threonine metabolism
3837	21585	NM_031620	j	Glycine, serine and threonine metabolism
3837	21586	NM_031620	j, u, dd, oo	Glycine, serine and threonine metabolism
3837	21587	NM_031620	k	Glycine, serine and threonine metabolism
3694	1995	NM_030850	d, h, uu	Glycine, serine and threonine metabolism, Methionine metabolism
2105	4091	A1169417	i, r, tt	Glycolysis / Gluconeogenesis, Glycolysis Pathway
2897	935	D49434	bb, ww	Glycosaminoglycan degradation
3294	17815	NM_017015	p, r, w, z	Glycosaminoglycan degradation, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
3507	574	NM_019905	m	Glyoxylate and dicarboxylate metabolism
2592	573	A1232087	h, l, m, qq	Glyoxylate and dicarboxylate metabolism
1126	2308	AA964227	l, General	Glyoxylate and dicarboxylate metabolism, One carbon pool by folate
665	22537	AA892799	kk	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
665	22538	AA892799	z	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
850	22540	AA924630	ff	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
2591	22542	A1232066	ff	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
3104	24427	NM_012669	pp	Growth Hormone Signaling Pathway, Presenilin action in Notch and Wnt signaling, WNT Signaling Pathway
3344	70	NM_017159	b, c, y	Histidine metabolism, Nitrogen metabolism
3854	18403	NM_031677	r	Hypoxia and p53 in the Cardiovascular system
3289	1698	NM_017000	e	Hypoxia and p53 in the Cardiovascular system, Sterol biosynthesis
4017	20243	NM_053615	ff	Hypoxia and p53 in the Cardiovascular system, WNT Signaling Pathway
3948	1423	NM_052801	imm	Hypoxia-Inducible Factor in the Cardiovascular System

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
3948	1424	NM_052801	ww	Hypoxia-Inducible Factor in the Cardiovascular System	
4175	656	NM_133380	x	IL 4 signaling pathway, Selective expression of chemokine receptors during T-cell polarization, Th1/Th2 Differentiation, il4	
3799	24710	NM_031512	vv	IL 5 Signaling Pathway, Msp/Ron Receptor Signaling Pathway, Signal transduction through IL-1R, interact6-1	
3296	6598	NM_017020	i, n, xx	IL 6 signaling pathway, il6, interact6-1	
3649	21238	NM_024125	t, ff	IL 6 signaling pathway, il6, interact6-1	
3649	21239	NM_024125	d, l, z	IL 6 signaling pathway, il6, interact6-1	
3321	4392	NM_017101	mm	IL-2 Receptor B Protein Interaction Pathway	
3321	4393	NM_017101	bb, mm	IL-2 Receptor B Protein Interaction Pathway	
3539	243	NM_021989	ii, rr	Inhibition of Matrix Metalloproteinases	
2306	17235	A1176815	n	Inhibition of Matrix Metalloproteinases, p53 Signaling Pathway	
2187	10087	A1171803	w, General, uu	Inositol metabolism, Propanoate metabolism, Valine, leucine and isoleucine degradation	
3732	17269	NM_031057	General, kk	Inositol metabolism, Propanoate metabolism, Valine, leucine and isoleucine degradation	
1809	9421	A1072885	pp	Inositol phosphate metabolism, Phosphatidylinositol signaling system	
3635	19669	NM_022041	x	Inositol phosphate metabolism, Phosphatidylinositol signaling system, Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway	
3928	18640	NM_032037	p, ee	Inositol phosphate metabolism, Phosphatidylinositol signaling system, Streptomycin biosynthesis	
3435	20863	NM_019152	g	Integrin Signaling Pathway	
4367	25593	U26310	k	Integrin Signaling Pathway	
3382	1496	NM_017255	qq, vv	Ion Channel and Phorbol Esters Signaling Pathway	
1229	20271	AA98747	cc, mm	Lysine degradation	
4062	20270	NM_053827	bb, mm	Lysine degradation	
3059	15740	NM_012520	p	Methane metabolism, Tryptophan metabolism	
3059	15741	NM_012520	q, General, bb	Methane metabolism, Tryptophan metabolism	
234	576	AA819118	vv	Methionine metabolism, Selenoamino acid metabolism	
3359	20779	NM_017201	u	Methionine metabolism, Selenoamino acid metabolism	

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SEQ ID NO.	IGLC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways		
4421	575	X15734	a, l	Methionine metabolism, Selenoamino acid metabolism		
3666	844	NM_024352	h, l, n, uu	Msp/Ron Receptor Signaling Pathway		
3802	20448	NM_031530	w	Msp/Ron Receptor Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage		
3802	20449	NM_031530	w	Msp/Ron Receptor Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage		
3239	15296	NM_013102	k	mTOR Signaling Pathway		
1202	16625	AA998062	j	N-Glycans biosynthesis		
3004	16626	M24353	l, k, General, ll	N-Glycans biosynthesis		
3861	21575	NM_031698	xx	N-Glycans biosynthesis		
3229	19335	NM_013067	x, dd	N-Glycans biosynthesis		
3696	15186	NM_030861	g, p; General, rr	N-Glycans biosynthesis		
3696	15187	NM_030861	n, z, General, rr	N-Glycans biosynthesis		
3696	15188	NM_030861	d, s, General	N-Glycans biosynthesis		
236	6018	AA819140	x	Nitrogen metabolism		
3480	24883	NM_019293	e, k, u	Nitrogen metabolism		
3782	18597	NM_031325	y, uu	Nucleotide sugars metabolism, Pentose and glucuronate interconversions, Starch and sucrose metabolism		
3595	12606	NM_022547	General, vv	One carbon pool by folate		
488	4339	AA875121	d	Overview of telomerase RNA component gene hTerc Transcriptional Regulation		
3163	4338	NM_012886	ll	Overview of telomerase RNA component gene hTerc Transcriptional Regulation		
1305	22056	A1008066	p, mm	Oxidative phosphorylation		
1919	15050	A1103911	r	Oxidative phosphorylation		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3360	14694	NM_017202	ff	Oxidative phosphorylation
3983	21866	NM_053472	s	Oxidative phosphorylation
4305	1448	NM_145783	oo	Oxidative phosphorylation
4005	21423	NM_053586	r	Oxidative phosphorylation
4005	21424	NM_053586	e,	Oxidative phosphorylation
			General	
1940	23574	A104520	ll	Oxidative phosphorylation
29	16901	AA799479	r	Oxidative phosphorylation, Ubiquinone biosynthesis
3454	20938	NM_019223	t	Oxidative phosphorylation, Ubiquinone biosynthesis
1456	21302	A1013297	o	Oxidative phosphorylation, Ubiquinone biosynthesis
4416	15653	X14210	ee, ll	Oxidative phosphorylation, Ubiquinone biosynthesis
13	1599	AA686470	General	p38 MAPK Signaling Pathway
13	1600	AA686470	pp	p38 MAPK Signaling Pathway
3654	1598	NM_024134	f, l, o, p,	p38 MAPK Signaling Pathway
			q,	
			General,	
			cc, dd,	
			kk, ll, oo	
3559	11454	NM_022381	c, f, kk, tt	p53 Signaling Pathway
3559	11455	NM_022381	c, f, jj, kk,	p53 Signaling Pathway
			nn	
3865	811	NM_031705	c, s,	Pantothenate and CoA biosynthesis, Pyrimidine metabolism, beta-Alanine metabolism
			General,	
			ll	
3865	812	NM_031705	s, oo	Pantothenate and CoA biosynthesis, Pyrimidine metabolism, beta-Alanine metabolism
4067	1508	NM_053845	e, uu, vv	Pantothenate and CoA biosynthesis, Pyrimidine metabolism, beta-Alanine metabolism
805	23038	AA900881	t, mm	Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine biosynthesis, Valine, leucine and isoleucine degradation
3381	23037	NM_017253	t, mm	Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine biosynthesis, Valine, leucine and isoleucine degradation

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3899	16039	NM_031811	b, c, ee, xx	Pentose phosphate pathway
3376	24582	NM_017243	kk, pp	Pentose phosphate pathway, Purine metabolism
449	17742	AA866302	ss	Phenylalanine metabolism, Tyrosine metabolism
3371	17740	NM_017233	ss	Phenylalanine metabolism, Tyrosine metabolism
3093	6055	NM_012619	b, l, General, uu	Phenylalanine, tyrosine and tryptophan biosynthesis
3210	11905	NM_013016	s, x	Phosphatidylinositol signaling system
3431	14971	NM_019140	n, bb	Phosphatidylinositol signaling system
3431	14975	NM_019140	dd	Phosphatidylinositol signaling system
4100	16809	NM_053990	l, oo	Phosphatidylinositol signaling system
3097	1840	NM_012637	g	Phosphatidylinositol signaling system
3097	1841	NM_012637	ww	Phosphatidylinositol signaling system
3097	1844	NM_012637	ww	Phosphatidylinositol signaling system
3464	1973	NM_019249	h, q, r, w, z, General, ee, nn	Phosphatidylinositol signaling system
4073	19781	NM_053883	q, tt	Phosphatidylinositol signaling system
765	18094	AA899051	rr	Phosphatidylinositol signaling system
2332	18095	A1177482	rr	Phosphatidylinositol signaling system
3237	18096	NM_013088	ff	Phosphatidylinositol signaling system
4301	242	NM_145683	u	Phosphatidylinositol signaling system, T Cell Receptor Signaling Pathway
3067	23868	NM_012551	dd, oo, tt	Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
3067	23869	NM_012551	oo, tt	Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
3067	23871	NM_012551	tt, vv	Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
3067	23872	NM_012551	dd, tt	Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase pathway
3351	114	NM_017175	oo	PKC-catalyzed phosphorylation of inhibitory phosphoprotein of myosin phosphatase

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways		
2427	16081	A179610	s, rr	Porphyrin and chlorophyll metabolism		
3172	18564	NM_012899	k, w	Porphyrin and chlorophyll metabolism		
416	14138	AA859700	p,	Porphyrin and chlorophyll metabolism		
			General			
1565	7935	A1043945	General	Porphyrin and chlorophyll metabolism		
3262	1451	NM_013168	tt	Porphyrin and chlorophyll metabolism		
3262	1452	NM_013168	ii	Porphyrin and chlorophyll metabolism		
4069	24705	NM_053850	ww	Porphyrin and chlorophyll metabolism		
3062	16520	NM_012532	b, u	Porphyrin and chlorophyll metabolism		
3930	860	NM_032063	mm	Presenilin action in Notch and Wnt signaling, Proteolysis and Signaling Pathway of Notch		
3111	5850	NM_012687	g	Prostaglandin and leukotriene metabolism		
3370	20192	NM_017232	s	Prostaglandin and leukotriene metabolism		
3370	20193	NM_017232	qq, w	Prostaglandin and leukotriene metabolism		
4353	13520	S87522	c	Prostaglandin and leukotriene metabolism		
1465	17065	A1013531	qq	Prostaglandin and leukotriene metabolism		
3441	17064	NM_019170	uu	Prostaglandin and leukotriene metabolism		
3812	692	NM_031557	g	Prostaglandin and leukotriene metabolism		
3120	4002	NM_012708	p,	Proteasome		
			General,			
			nn			
3120	4003	NM_012708	p	Proteasome		
3120	4004	NM_012708	nn	Proteasome		
3120	4005	NM_012708	General	Proteasome		
3391	15141	NM_017278	gg, hh	Proteasome		
3392	5747	NM_017279	p	Proteasome		
3392	5748	NM_017279	xx	Proteasome		
3393	1447	NM_017281	t	Proteasome		
3394	3254	NM_017282	e, kk,	Proteasome		
			mm, nn			



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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways		
3394	3256	NM_017282	I, J, xx	Proteasome		
3842	20940	NM_031629	Y, nn	Proteasome		
3842	20941	NM_031629	bb	Proteasome		
3842	20942	NM_031629	mm	Proteasome		
4108	22849	NM_057099	C	Proteasome		
4008	20842	NM_053590	mm	Proteasome		
2896	9135	D45247	b, mm	Proteasome		
3395	15535	NM_017283	ll	Proteasome		
3396	12523	NM_017285	tt	Proteasome		
3396	12524	NM_017285	kk	Proteasome		
2896	9134	D45247	j, y	Proteasome		
3762	15539	NM_031132	v	Proteasome, TGF beta signaling pathway, IGF-beta		
3832	11296	NM_031606	b, m, General, oo, ww, xx	PTEN dependent cell cycle arrest and apoptosis, Phosphatidylinositol signaling system, Regulation of eIF4e and p70 S6 Kinase, mTOR Signaling Pathway		
3832	11297	NM_031606	ss	PTEN dependent cell cycle arrest and apoptosis, Phosphatidylinositol signaling system, Regulation of eIF4e and p70 S6 Kinase, mTOR Signaling Pathway		
65	14250	AA799729	qq, vv	Purine metabolism		
3169	16708	NM_012895	a, b, h, w	Purine metabolism		
3369	442	NM_017229	y	Purine metabolism		
3808	1504	NM_031544	a, l, General, uu	Purine metabolism		
480	20389	AA875045	oo	Purine metabolism		
3888	14184	NM_031776	j	Purine metabolism		
3888	14185	NM_031776	j, r, y	Purine metabolism		
4064	16590	NM_053838	v	Purine metabolism		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways		
1257	20438	AF009656	e, u	Purine metabolism		
2532	23041	AI230130	e	Purine metabolism		
3027	13547	M63983	e	Purine metabolism		
3707	997	NM_031007	u	Purine metabolism		
119	19020	AA800291	e, h, n	Purine metabolism		
2320	14384	AI177096	e	Purine metabolism		
2469	21505	AI228005	bb	Purine metabolism		
4045	1868	NM_053768	General, dd, vv	Purine metabolism		
4045	1869	NM_053768	q, General, dd, vv	Purine metabolism		
2865	4714	AI639518	k, ww, xx	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
4085	15857	NM_053948	b, e, bb, oo, ww	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
63	20995	AA799724	General	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
63	20996	AA799724	b, f, General, kk, nn, qq	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
2650	5778	AI233246	ii	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
2654	5779	AI233363	l	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
3886	15647	NM_031773	l, y	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
3787	15360	NM_031335	p, v	Purine metabolism, Pyrimidine metabolism, RNA polymerase		
3835	24235	NM_031614	uu	Pyrimidine metabolism		
3276	20826	NM_013218	gg, hh	Pyrimidine metabolism		
4009	20896	NM_053592	w, x, bb	Pyrimidine metabolism		
4466	25746	X80778	t	Pyrimidine metabolism		

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
3943	1409	NM_033349	t, j	Pyruvate metabolism	
2465	22845	A1227887	t	Ras Signaling Pathway, Role of PI3K subunit p85 in regulation of Actin Organization and Cell Migration, p38 MAPK Signaling Pathway	
3509	18714	NM_020075	y	Regulation of eIF2	
3509	18715	NM_020075	l	Regulation of eIF2	
3509	18716	NM_020075	p, gg, hh	Regulation of eIF2	
3828	14295	NM_031599	f, i, pp	Regulation of eIF2	
3697	1928	NM_030872	z, General, ee, kk	Regulation of eIF4e and p70 S6 Kinase	
2090	23152	A169170	xx	Regulation of eIF4e and p70 S6 Kinase, mTOR Signaling Pathway	
4250	9896	NM_138878	p	Regulation of p27 Phosphorylation during Cell Cycle Progression	
3084	24735	NM_012596	pp	Reversal of Insulin Resistance by Leptin	
2434	3376	A1179755	w	Rho cell motility signaling pathway	
3434	17304	NM_019144	d, p, gg, hh	Riboflavin metabolism	
3284	24649	NM_016988	b, e, i, w, General	Riboflavin metabolism	
1206	3364	AA998097	General	Selenoamino acid metabolism	
60	2040	AA799700	w	Selenoamino acid metabolism	
3345	17105	NM_017160	ee	Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, mTOR Signaling Pathway	
1753	16058	A1071490	General, vv	Phospholipid metabolism	
107	4832	AA800190	oo	Starch and sucrose metabolism	
3553	10509	NM_022268	p, General	Starch and sucrose metabolism	
3553	25814	NM_022268	l	Starch and sucrose metabolism	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways				
3795	24645	NM_031502	a, d, k, l, dd, uu	Starch and sucrose metabolism				
3728	301	NM_031049	jj	Sterol biosynthesis				
3728	302	NM_031049	jj	Sterol biosynthesis				
3728	303	NM_031049	k, jj	Sterol biosynthesis				
3248	650	NM_013134	w	Sterol biosynthesis				
3248	651	NM_013134	t	Sterol biosynthesis				
3248	652	NM_013134	n, t	Sterol biosynthesis				
3734	400	NM_031062	jj, ww	Sterol biosynthesis				
3735	21701	NM_031063	jj	Sterol biosynthesis				
4120	8592	NM_057137	q, xx	Sterol biosynthesis				
3331	16681	NM_017136	r, w, jj	Sterol biosynthesis, Terpenoid biosynthesis				
3331	16682	NM_017136	t, mm	Sterol biosynthesis, Terpenoid biosynthesis				
3458	16449	NM_019238	jj	Sterol biosynthesis, Terpenoid biosynthesis				
3458	16450	NM_019238	jj, oo, ss	Sterol biosynthesis, Terpenoid biosynthesis				
3458	16451	NM_019238	bb, jj	Sterol biosynthesis, Terpenoid biosynthesis				
3458	16452	NM_019238	jj	Sterol biosynthesis, Terpenoid biosynthesis				
2752	7691	A1236611	v, x, bb	Sterol biosynthesis, Terpenoid biosynthesis				
3993	1058	NM_053539	d, o, q, v, jj, pp	Sterol biosynthesis, Terpenoid biosynthesis				
3910	15069	NM_031840	k, s, jj	Sterol biosynthesis, Terpenoid biosynthesis				
3910	15070	NM_031840	ii, jj, rr	Sterol biosynthesis, Terpenoid biosynthesis				
3910	25460	NM_031840	k, jj	Sterol biosynthesis, Terpenoid biosynthesis				
3354	23961	NM_017181	b, uu, wv	Styrene degradation, Tyrosine metabolism				
3761	14970	NM_031127	l, p, x, z, General, kk, nn	Sulfur metabolism				
3904	4748	NM_031834	k, cc, vv	Sulfur metabolism				

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways	
3904	4749	NM_031834	b, k, l, ii	Sulfur metabolism	
3106	17117	NM_012673	w	T Cytotoxic Cell Surface Molecules, T Helper Cell Surface Molecules	
3530	19824	NM_021750	c, General, kk	Taurine and hypotaurine metabolism	
3530	19825	NM_021750	l, General, dd, ii, qq, vv	Taurine and hypotaurine metabolism	
2961	790	L10073	g	Taurine and hypotaurine metabolism	
3156	17541	NM_012844	l, s, General, ff, ll, vv	Tetrachloroethene degradation	
3632	2006	NM_022936	o, xx	Tetrachloroethene degradation	
3632	2007	NM_022936	o, s	Tetrachloroethene degradation	
3632	2008	NM_022936	o, s, xx	Tetrachloroethene degradation	
3632	2009	NM_022936	n, o	Tetrachloroethene degradation	
3446	15242	NM_019191	f, General, ii	TGF beta signaling pathway, tgf-beta	
3815	16164	NM_031563	h, m, n, General	Transcriptional activation of dbpb from mRNA	
3148	326	NM_012818	ss	Tryptophan metabolism	
3510	20493	NM_020076	b, k, l, General, bb, ff, qq, tt, uu	Tryptophan metabolism	
3510	20494	NM_020076	cc, ll, ss	Tryptophan metabolism	

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SEQ ID NO.	GLGC ID NO.	GenBank Acc. or RefSeq ID No.	Model Code	Pathways
3569	402	NM_022403	c, l, vv, xx	Tryptophan metabolism
4080	794 -	NM_053902	l	Tryptophan metabolism
3814	18315	NM_031561	o	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
3814	18316	NM_031561	o	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
3814	18317	NM_031561	o	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
3814	18318	NM_031561	j	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
3814	18319	NM_031561	o	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
3814	25139	NM_031561	o	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
3061	11115	NM_012531	l, nn	Tyrosine metabolism
3061	11116	NM_012531	nn	Tyrosine metabolism
3083	4449	NM_012592	z,	Valine, leucine and isoleucine degradation
			General	
3083	4450	NM_012592	p	Valine, leucine and isoleucine degradation
1476	21950	A1013861	h	Valine, leucine and isoleucine degradation
3448	18572	NM_019201	pp, tt	WNT Signaling Pathway

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Model	Time Point (hr)	Model Code
amiodarone	24	a
anit	24	b
apap	24	c
apap	3,6	d
ay-25329	24	e
ay-25329	3,6	f
carbamazepine	24	g
Carcinogen Genotoxic	Various	h
Carcinogen NonGenotoxic	Various	i
ccl4	24	j
chlorpromazine	3,6,24	k
Cholestasis	Various	l
ci1000	24	m
ci1000	3,6	n
clofibrate	24	o
cpa	3,6	p
diclofenac	24	q
diclofenac	3,6	r
diflunisal	6,24	s
Direct Acting	Various	t
dmn	24	u
estradiol	24	v
estradiol	3,6	w
gemfibrozil	24	x
gemfibrozil	3,6	y
Hepatitis	Various	z
General	Various	aa
hydrazine	24	bb
imipramine	24	cc
indomethacin	24	dd
indomethacin	3,6	ee
Inducer Liver Enlargement	Various	ff
Inflammation	Various	gg
lps	24	hh
methotrexate	24	ii
lovastatin	24	jj
Necrosis	Various	kk
Necrosis Steatosis	Various	ll
NegCtrls	Various	mm
Peroxisome Prolif.	Various	nn
phenobarbital	24	oo
phenobarbital	3,6	pp
Steatosis	Various	qq
Steatosis Hepatitis	Various	rr
tacrine	24	ss
tacrine	3,6	tt
tamoxifen	24	uu
tetracycline	24	vv
valproate	6,24	ww
wy-14643	3	xx

TABLE 5A: AMIODARONE					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
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GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19227	99.3537	237.5478	9.4790	122.0614	33.4838
15891	99.2949	664.6183	27.2304	353.6949	82.6001
24693	98.9424	5.9428	9.9573	774.2990	485.4948
20746	98.6486	1890.1518	183.4396	559.2120	295.3021
18725	98.6486	15.4600	1.3119	93.1144	59.1159
20745	98.5899	1186.4775	145.7624	410.1949	217.0560
25694	98.5899	27.6885	0.8157	10.5083	7.6496
7459	98.5311	678.6165	38.9410	1498.9003	427.3513
1925	98.5311	197.1045	12.0379	95.3063	34.6330
1798	98.4136	339.0583	19.4480	1202.4789	660.6362
19226	98.4136	314.5943	23.0072	187.4882	44.2100
1546	98.3549	30.2790	2.9156	108.1889	45.4599
17754	98.3549	861.7003	36.9938	461.2268	161.4413
16947	98.2374	89.0373	9.0197	346.8332	139.0200
16895	98.2374	8.7830	7.3940	266.3850	166.9155
4517	98.1786	115.6470	6.9333	57.0316	20.6191
23660	98.1199	451.7370	29.3710	999.4975	278.6556
18069	98.1199	119.5903	56.3270	27.6058	24.0523
17271	98.0611	48.2335	3.4521	22.2641	8.8891
1818	98.0611	302.7925	23.3457	761.8910	294.9364
19059	98.0024	81.7113	55.2270	-11.9952	19.0361
16650	97.9436	984.8695	199.5778	307.8347	152.7819
588	97.8848	82.1803	11.4658	295.3147	124.7987
16524	97.8261	85.1848	9.5840	37.7218	14.4670
19631	97.8261	102.9018	9.3182	45.7772	18.9003
20698	97.7673	10.6448	11.2907	375.2461	209.6079
20421	97.7673	96.5418	8.4793	50.9359	14.6279
8599	97.7673	90.3548	6.1425	40.4861	18.4379
17604	97.7673	154.1105	6.9312	90.9187	28.3066
16708	97.7086	153.2685	3.8280	261.0070	84.4659
1146	97.7086	96.6360	9.8336	36.6841	18.0282
20405	97.7086	39.4923	17.1729	219.3474	96.6090
818	97.6498	380.2108	140.0541	2886.6125	1763.6190
20971	97.6498	152.5923	4.6182	98.0412	31.6824
20700	97.5911	938.3848	184.0039	3038.1616	1093.1116
21882	97.5911	375.2395	21.5724	684.7875	179.0462
16346	97.5323	354.4890	35.6167	160.2222	65.0523
1942	97.5323	-4.0835	0.8028	35.7589	58.4215
20960	97.5323	936.4035	38.3038	567.4968	152.9725
20778	97.5323	113.9043	7.7578	65.7477	18.0438
24105	97.5323	80.1058	12.1136	33.3450	15.1070
19679	97.5323	19.2213	3.0228	74.3247	49.4056
4593	97.4736	579.0483	191.1175	126.9294	152.5171
1376	97.4736	31.9268	1.9123	18.5861	6.2796
570	97.4736	508.8248	87.4490	257.9509	79.7458
16993	97.4736	5.2723	9.2009	111.8037	65.8527
17039	97.4148	245.4835	18.1872	134.5809	40.7935
24670	97.4148	39.2255	14.4852	175.0608	64.5671
8182	97.4148	255.6065	51.5111	817.8461	299.6077
4594	97.3561	966.2893	281.3000	174.8865	223.6608
17999	97.3561	430.8943	59.7906	968.1279	261.6398
1504	97.2973	81.2268	26.7097	16.9902	14.9484



TABLE 5A: AMIODARONE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18883	97.2973	127.7325	10.1291	76.7439	17.7798
12299	97.2973	215.0775	21.0509	471.5100	159.4446
4547	97.2973	164.5733	20.2171	91.7422	23.0812
23343	97.2385	85.2673	3.0350	54.9234	21.7933
25799	97.1798	573.4228	43.8220	211.3966	139.3948
8266	97.1798	606.4828	131.9853	2088.0466	952.5685
25325	97.1210	104.6418	70.8716	980.3722	541.5019
382	97.1210	-29.6223	7.7239	44.1494	43.2343
6049	97.0623	2163.6495	311.8916	1212.2164	281.4331
1130	97.0623	302.9488	63.2883	969.2272	386.8300
19101	97.0035	282.6973	38.9054	117.3576	50.3312
5497	97.0035	35.1683	16.5699	212.6923	135.0406
670	96.8860	81.5793	12.5146	313.6205	123.2619
20586	96.8860	20.1963	8.8496	142.0140	69.0493
21842	96.8860	1093.5040	82.2799	478.1786	259.3258
26032	96.8860	67.3053	18.9306	502.6090	438.5387
16018	96.8860	249.3688	43.0307	102.3648	47.4464
6425	96.8860	258.8950	30.2217	146.7642	38.7837
13005	96.8860	304.0158	85.6333	104.3331	46.6571
18730	96.8860	259.6305	75.8338	1241.4116	593.0451
18578	96.8273	365.2230	67.8270	136.3383	101.2350
575	96.8273	31.8003	7.6632	169.8753	104.1103
15661	96.8273	64.1050	4.5854	29.6029	26.4071
25204	96.7685	20.8115	4.3729	106.6515	56.2028
1583	96.7685	219.5193	14.0706	122.4061	42.4123
25326	96.7685	879.7590	180.0783	2199.9202	685.7314
21350	96.7685	59.4465	12.9149	19.5448	14.5359
19144	96.7685	23.3323	1.0373	12.8535	8.3691
23324	96.7098	199.6150	46.3919	44.5582	62.5752
22413	96.7098	1529.8625	480.3424	461.5830	272.5368
1854	96.7098	714.9543	187.2927	2085.4645	888.2733
1037	96.7098	164.9610	9.2642	94.6965	44.2249
14034	96.6510	164.4735	8.3770	96.4698	30.5137
19177	96.6510	116.8100	37.2390	37.9294	19.6835
1850	96.6510	806.1135	205.0686	2283.4617	1008.9738
24362	96.5922	414.5140	28.9011	1371.8917	765.5993
23192	96.5335	202.7878	3.7852	285.5847	85.7375
10503	96.5335	55.4060	5.2182	183.7161	121.5956
24645	96.5335	39.1603	8.6167	115.8294	43.6326
15682	96.5335	109.9260	9.6581	58.0469	22.9376
18881	96.5335	33.6695	4.8400	16.3807	6.0946
16376	96.4747	36.7405	0.6836	31.0483	16.6419
24326	96.4747	1265.2950	49.6198	826.1223	255.2820
820	96.4160	143.5745	72.7519	1033.5250	716.2222
16017	96.3572	93.8553	27.2057	35.7248	18.4475
771	96.3572	91.2233	23.1086	32.1010	16.8266
21001	96.3572	253.3903	10.4906	178.5226	39.6339
24453	96.3572	8.2448	4.2925	39.2748	18.3887
16496	99.5887	405.5363	38.9131	1131.7293	408.5323
7683	99.5300	1272.7238	33.3495	628.4154	178.5282
2818	99.1187	739.8768	18.0280	502.3980	82.4618
6005	99.0599	984.5308	11.8395	1474.3549	310.7437

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TABLE 5A: AMIODARONE					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3062	98.8249	390.7458	15.6797	1117.6792	442.2921
4521	98.7662	142.5955	10.7502	304.9070	86.0162
1148	98.7074	590.6433	97.1960	207.1857	89.4288
7147	98.5899	508.5110	34.3797	1056.6155	253.3393
12354	98.5311	473.1683	72.1941	152.5497	73.9953
12479	98.4724	428.2905	55.0405	1666.1192	812.0432
12908	98.4136	721.7805	196.1904	88.3413	99.6503
16314	98.3549	117.0538	7.4441	45.9282	35.0244
7596	98.3549	400.8305	75.1441	161.5614	55.6695
16865	98.2961	290.6443	107.3565	41.9286	51.4241
5377	98.2961	87.0393	8.9609	31.0460	21.0164
18800	98.1786	585.7013	21.1459	259.0642	186.8598
15644	98.1786	846.1423	45.5800	1516.8638	399.1451
8057	98.1199	76.9045	21.7453	14.2054	15.8823
23200	98.0611	229.5073	9.5432	138.8740	38.5548
14656	98.0611	157.5353	13.4656	67.3595	28.4443
18612	98.0611	388.6913	18.0706	222.1326	67.6918
19555	98.0611	116.1578	6.8729	384.0183	247.0203
23808	98.0024	130.0633	24.4008	323.9509	86.4883
5355	97.9436	178.6520	54.8038	1112.0963	518.9281
15500	97.9436	645.6283	19.5208	448.6024	94.4894
3475	97.8261	215.6923	3.8099	324.4232	89.2062
12916	97.7673	64.4325	11.5686	20.2753	18.9189
22883	97.7673	196.2880	37.2430	91.8094	28.5421
23162	97.7086	84.0273	13.9702	420.9424	302.2216
18765	97.7086	188.8203	26.0729	693.5048	317.2794
6808	97.7086	812.3230	138.6541	1721.1242	435.7420
8926	97.6498	358.0805	140.7574	103.5883	49.6079
22801	97.6498	437.7643	87.4251	1445.0242	649.3366
3917	97.5911	54.9983	63.1220	873.0312	516.8557
11173	97.5911	156.9755	48.8266	638.3982	212.4591
18909	97.5911	67.8935	10.5592	366.3420	198.4210
7359	97.5323	273.9243	12.9310	172.5763	39.6917
21885	97.5323	125.6663	7.4470	61.5046	25.9663
19206	97.5323	90.8053	20.1546	23.8699	17.5814
9399	97.5323	391.2453	83.4745	206.3806	51.3381
22746	97.4736	17.7768	11.6834	157.1981	88.2396
22079	97.4148	1171.8738	112.8873	2413.7116	764.1889
12769	97.4148	172.1220	61.2983	37.8882	39.2371
11550	97.3561	93.4875	5.1468	47.3131	23.8512
22586	97.3561	142.2270	84.8485	3849.5442	3589.5813
22387	97.2973	1501.9503	35.7480	1043.8475	263.3120
2528	97.2973	556.9448	75.7505	202.6152	115.2814

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TABLE 5B: ANIT					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17226	99.6475	260.2300	29.4102	847.1671	245.8089
958	99.6475	171.7825	6.1527	505.1358	203.1121
10306	99.5887	1656.4500	89.5745	648.9015	230.8451
22582	99.5300	24.8575	1.5360	81.2763	39.7678
17227	99.4125	457.2900	49.1530	1279.9480	335.6271
17393	99.4125	1004.3575	91.5302	480.0924	115.3988
20650	99.3537	30.5775	4.4423	607.5490	404.7953
18867	99.2949	36.9200	8.3960	310.5191	157.0590
556	99.2949	92.9600	5.4166	265.0881	88.8586
20712	99.2949	60.3375	7.2241	246.6753	132.5902
7914	99.2362	7.4525	3.3544	75.2857	35.1121
17145	99.1774	122.5500	22.3433	501.2566	208.9837
16039	99.1774	1555.8475	239.0546	710.0814	198.7351
2384	99.1187	12.7300	3.4102	287.4855	165.4902
819	99.1187	296.9500	28.6319	1706.3283	942.6241
15661	99.1187	109.5150	8.7478	29.3894	25.9353
11755	99.1187	167.3525	14.4052	686.1423	302.1233
25024	99.1187	34.6700	8.1472	239.8022	113.9015
6055	99.0012	24.5550	8.9442	315.8067	163.0696
20915	99.0012	61.4800	9.0675	416.2936	339.2109
18107	99.0012	1336.6650	49.3207	789.4380	164.3049
626	98.9424	418.7675	78.5459	88.1139	71.7967
17146	98.9424	5.3575	10.3645	311.6243	163.0481
707	98.9424	69.7350	9.2046	20.3268	12.7871
15516	98.9424	229.8925	19.4393	118.8714	26.6507
20597	98.8837	341.3975	50.6871	1004.2454	292.2911
16520	98.8837	314.1200	51.0088	1107.7091	460.8147
20716	98.8249	136.1825	16.2657	524.2016	180.6620
11296	98.8249	298.1875	55.0257	113.7404	36.8520
21014	98.8249	145.1225	30.4029	830.3951	436.6797
15850	98.8249	3181.9800	262.7109	1960.7014	341.5800
21657	98.8249	289.4750	42.9002	889.0573	404.7665
23274	98.7662	1606.7000	176.4449	945.9733	176.2985
1529	98.7662	26.8125	5.6383	114.2765	46.7335
18430	98.7074	243.6850	28.7774	71.8774	42.6409
1514	98.7074	391.7850	25.6586	145.9972	62.9319
18726	98.7074	54.3250	4.9052	194.8737	85.1441
699	98.7074	126.3225	21.6857	344.9964	109.8292
24693	98.7074	59.0275	6.1621	774.0495	485.8765
7602	98.7074	601.4825	57.6071	349.5946	99.2395
20701	98.6486	35.3050	13.4351	399.9427	198.8453
6108	98.6486	1257.5950	153.7835	506.8269	168.3936
20996	98.6486	563.4050	60.0400	249.5158	88.8218
18331	98.6486	1068.9125	351.8292	194.1789	102.9796
14347	98.5899	286.6525	22.2057	884.5109	341.5771
2368	98.5899	248.3250	20.4877	464.7006	104.1860
109	98.5899	1220.6625	215.4760	3518.8273	1219.9646
15028	98.5899	51.1875	17.0011	337.0457	149.0499
111	98.5311	1154.5000	120.5988	2872.5752	975.8517
23248	98.5311	119.3600	9.4801	39.6988	36.7799
70	98.4724	33.3500	3.5382	106.8160	50.4471
24204	98.4136	282.6300	16.0594	154.7034	48.6518

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TABLE 5B: ANIT					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16947	98.4136	68.0425	12.1380	346.9319	138.8283
21012	98.4136	278.5050	50.7066	1222.4598	628.8894
19831	98.4136	200.1900	18.7815	107.3044	32.1896
14989	98.4136	761.9800	52.9341	450.4529	89.2946
591	98.3549	95.7775	9.8999	37.0750	16.6713
17101	98.3549	786.3625	28.2350	456.0729	164.1279
20998	98.3549	236.8825	25.8019	614.3989	220.5771
16780	98.3549	64.1125	4.5187	175.0989	96.2990
23961	98.2961	43.8725	18.2043	274.4207	121.5970
2744	98.2961	504.6525	25.3389	314.3893	85.6597
9135	98.2961	983.9925	5.8230	1000.8397	221.8925
25475	98.2961	-0.4050	8.2282	139.3692	86.1464
10108	98.2961	479.9000	74.9704	204.0318	79.9186
17805	98.2374	142.7425	30.0475	658.8843	269.8694
18728	98.2374	307.9675	32.8908	163.4587	37.1792
1728	98.2374	386.6850	20.1036	227.3063	89.6840
8317	98.2374	74.9550	21.1926	244.7780	101.6263
23806	98.1786	113.9400	10.7734	339.7217	116.6303
19942	98.1786	256.9775	14.4830	146.1837	42.5731
20649	98.1786	22.8400	8.0761	347.8181	312.4591
16825	98.1786	95.4325	5.7153	45.7425	24.7772
24649	98.1199	38.0150	4.1274	92.5731	26.3787
25678	98.1199	213.1250	79.5654	36.2870	26.0791
2667	98.1199	31.0325	11.2037	180.7067	85.5313
24458	98.1199	930.0925	166.4411	439.9366	109.9386
20493	98.1199	14.8350	6.5987	109.3934	46.5082
534	98.1199	368.2525	161.0394	2338.7487	961.5722
3910	98.0611	147.9425	9.5553	67.8434	27.7125
18553	98.0611	644.5600	167.2313	114.6238	88.6532
48	98.0611	19.7775	13.1178	214.8831	118.5530
3131	98.0611	32.3250	3.6906	102.1725	52.6095
6107	98.0611	1411.1725	296.9593	541.8858	208.6218
2367	98.0611	94.9950	13.5344	207.9150	53.3577
4749	98.0024	103.6225	13.2539	706.9315	504.0897
4314	98.0024	30.7450	11.1057	163.9737	83.5641
15281	98.0024	967.7075	99.3001	544.3753	174.0717
1958	98.0024	445.1375	117.2457	1764.2088	838.9820
1548	97.9436	28.2950	12.2955	213.4790	93.1374
16708	97.9436	124.9825	9.2980	261.1399	84.2720
4433	97.9436	192.5450	5.6646	129.6513	34.0088
20719	97.9436	179.7650	17.6955	99.8016	33.6155
18724	97.8848	12.4325	5.6879	206.3522	135.0903
14346	97.8848	202.0600	36.6153	728.8054	319.3257
15857	97.8848	271.8300	13.0074	171.3616	45.2873
16510	97.8848	41.9375	13.2198	173.9038	80.1378
14633	97.8261	93.9800	21.7354	491.5620	204.1518
20153	97.7673	105.6300	9.8568	320.1023	120.0871
590	97.7673	104.3425	14.1552	47.2263	17.6984
11183	99.8237	60.1550	10.3184	282.8550	150.6241
5954	99.7650	619.6375	45.2357	5530.8616	1783.9112
3828	99.7062	29.5325	4.4363	496.3116	311.1641
10304	99.6475	604.2200	57.4522	181.8207	72.9208

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TABLE 5B: ANIT					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3501	99.4712	59.5025	1.7444	132.3961	35.3421
3746	99.4125	1444.9650	113.4109	781.3370	155.7630
3411	99.4125	66.6150	22.3679	531.0550	256.5738
6630	99.2949	1437.7850	136.7180	875.5654	134.4828
18528	99.2362	1077.5450	66.4474	366.4033	172.1542
8856	99.2362	177.4850	13.1452	70.3709	23.6796
24229	99.1774	334.9775	32.9092	1970.5376	1246.6237
13374	99.1774	649.7950	73.5470	320.8445	75.2796
9871	99.1774	97.4400	1.3737	24.8101	48.7035
5019	99.1774	1221.5325	39.5840	756.4039	171.5874
13615	99.1187	68.6600	3.0861	171.1194	54.7801
14181	99.0599	8.1200	1.5898	48.5718	22.4862
13614	99.0599	45.3500	5.4268	178.6050	62.7585
3034	99.0012	43.1700	0.4387	71.9742	22.3106
18846	99.0012	368.4975	14.0361	240.9675	43.6985
6060	99.0012	96.4450	13.0907	240.0063	64.9394
5355	99.0012	139.3025	34.8060	1112.2812	518.5939
19398	99.0012	193.6300	10.7707	534.4723	205.8335
16	98.9424	89.0750	16.9430	329.6668	130.4868
4046	98.8837	499.9575	65.2513	162.0740	66.0405
9440	98.8837	322.1375	10.1546	204.6000	65.5862
9079	98.8837	74.4625	17.8935	327.2513	227.2493
8500	98.8837	56.9975	20.7527	1038.0882	686.1585
22607	98.8837	8.8650	11.4080	152.1883	70.9472
3576	98.8249	152.8700	10.1725	55.2392	32.5345
16688	98.7662	1308.3125	60.6521	686.7498	191.5996
21254	98.7662	229.1025	10.3990	136.5379	34.3869
18529	98.7074	556.0425	39.9996	207.1498	87.9950
21660	98.7074	507.1475	80.7518	1788.5884	910.5618
24119	98.7074	512.9650	54.3836	250.7251	82.5293
7524	98.7074	1557.7450	92.0207	926.7397	207.0042
3238	98.7074	450.3850	80.8831	159.6256	71.1281
24236	98.6486	354.9450	33.7812	160.2793	54.7563
19249	98.6486	1110.8600	132.2140	483.9407	239.6846
3850	98.5899	182.0800	6.4533	396.8754	158.0713
16088	98.5899	79.0275	8.6165	182.7218	48.2105
17358	98.5899	158.8900	19.9766	494.2814	214.2275
23504	98.5899	993.5700	56.7524	540.8315	140.4424
23261	98.5899	22.5575	6.3117	395.9670	235.6986
3302	98.5899	29.6050	2.2556	105.6777	48.8850
9680	98.5311	31.3275	1.1534	69.4657	27.2159
15081	98.5311	67.9025	13.2453	278.5142	118.2369
11978	98.5311	26.1525	3.1692	206.7815	192.2707
23813	98.5311	85.6825	17.8264	862.1642	732.1538
19359	98.5311	134.6600	34.8771	552.2129	191.7083
8436	98.4724	227.9025	69.5826	1726.4417	791.3808

TABLE 5C: APAP						Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs						Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
15426	100.0000	508.7167	10.4587	238.7766	52.1295		
19945	99.9413	31.7433	0.1012	4.4675	13.9739		
23194	99.9413	33.2900	10.5596	187.1331	76.7380		
21062	99.8239	155.9033	11.0095	39.8660	19.7916		
20717	99.7653	24.0867	7.4705	-27.1935	20.0993		
643	99.7066	340.2600	85.7686	12.9827	14.5256		
15401	99.7066	439.4600	93.5865	81.8626	27.1758		
17858	99.7066	118.1333	0.6603	190.9158	37.3408		
15134	99.7066	1674.1333	189.9743	695.2466	191.2070		
9202	99.6479	251.0500	9.1900	122.0969	31.5514		
19152	99.5892	136.6300	13.5257	44.4279	15.5199		
1382	99.5305	56.5133	1.7517	115.2506	27.3775		
18393	99.5305	345.2200	8.6614	196.4126	47.3379		
20182	99.5305	327.5033	37.7188	104.6493	37.3168		
25802	99.4718	1089.8333	22.3068	646.7085	150.2169		
20065	99.4718	411.6600	145.4597	35.2978	17.2813		
20817	99.4131	1724.6633	12.4475	988.0682	568.4936		
24205	99.4131	17.4067	2.3690	73.0638	23.8265		
11384	99.2958	59.3533	3.1197	31.5539	8.6823		
18161	99.2958	28.8933	0.0814	47.7268	30.5503		
16318	99.2958	705.0933	177.9215	153.1467	66.0596		
23522	99.2958	487.6967	21.0557	251.4014	78.3595		
18578	99.2371	521.4367	19.9051	136.0569	99.8756		
24707	99.2371	68.7733	1.6107	180.2722	101.2117		
25251	99.2371	2211.0700	209.4688	1121.0552	266.6471		
24161	99.2371	559.1000	31.9529	349.6547	60.2197		
22625	99.1784	503.3133	126.9978	95.4733	39.8115		
485	99.1784	97.5667	8.3547	39.4478	12.4000		
16372	99.1784	29.9133	1.4348	8.3543	6.9524		
25250	99.1784	1915.3933	242.4802	897.5140	235.5335		
590	99.1197	134.0267	16.6233	47.1888	17.3693		
1262	99.0023	9.9700	0.7031	42.6714	24.2706		
23346	99.0023	327.2133	125.3665	70.5714	22.4292		
70	99.0023	23.2833	6.0407	106.7652	50.4246		
16039	98.9437	1064.6167	12.0737	712.8037	206.3057		
14353	98.8850	43.0333	2.0021	95.8245	34.8232		
15936	98.8263	53.2900	0.1908	47.2757	17.1305		
11454	98.8263	801.5433	127.0116	228.6376	99.7531		
20772	98.7676	50.9033	3.8709	116.3212	32.5185		
548	98.7676	3.7067	3.7534	172.5627	193.1658		
23544	98.7676	1755.4267	139.1646	1006.1279	189.3010		
591	98.7089	139.2400	25.0521	36.9909	15.9959		
16716	98.7089	42.1967	2.1667	99.1762	41.6847		
17661	98.7089	655.7767	80.4655	308.4746	81.0864		
18060	98.7089	109.5267	3.5574	174.4818	38.5570		
20650	98.6502	109.6367	10.6686	606.5934	405.4088		
764	98.5915	13.7833	0.8882	39.4112	17.4926		
6944	98.5915	32.1967	7.6422	3.4959	8.9960		
23324	98.5329	276.3033	21.1283	44.4702	61.9779		
1579	98.5329	35.2833	0.3499	23.9286	14.7245		
25718	98.5329	1230.8200	7.1078	1009.9121	162.7991		
13520	98.5329	152.6533	16.2654	0.9068	79.1834		

TABLE 5C: APAP					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23347	98.5329	247.4267	88.4194	50.8436	22.3920
18497	98.4742	199.7433	3.8004	117.3543	37.7368
1390	98.4155	-2.2767	1.1542	55.3681	52.0545
9427	98.4155	18.1867	0.1097	20.8208	9.6290
811	98.4155	28.3600	3.0565	93.4182	41.8558
9745	98.3568	122.8933	11.8739	59.7544	18.8183
19824	98.3568	35.3233	1.6971	96.6294	46.8731
25495	98.3568	44.4500	4.2985	91.3471	22.2570
22849	98.3568	537.9733	9.6668	350.8469	108.8176
457	98.3568	199.7967	15.2999	507.3457	183.1674
11455	98.2981	530.5267	140.9872	124.5180	64.4100
18056	98.2981	26.3633	14.6246	0.6585	6.1065
4280	98.2394	212.8700	20.8259	718.4590	282.2208
9527	98.2394	8.3667	0.5713	27.5479	16.0965
17382	98.1808	496.8667	13.3045	274.7006	103.5741
220	98.1221	61.7867	5.5879	16.6764	17.8073
10623	98.0634	24.4800	0.4431	68.5285	58.7579
85	98.0634	3.5767	0.4895	21.6693	16.5031
17345	98.0634	69.0600	6.0032	147.9359	44.9269
1920	98.0634	928.5733	34.3835	516.6548	215.9846
25598	98.0047	26.7633	1.2454	3.7137	12.6894
19472	98.0047	1215.3600	92.8050	734.3796	155.6344
851	98.0047	89.3467	7.5617	176.2289	58.0706
22219	97.9460	226.7067	15.6383	605.4227	271.7582
1822	97.9460	95.6433	5.2991	54.8922	18.2739
21066	97.9460	249.3000	5.8075	185.0295	44.2426
16220	97.8873	13.2900	0.1819	20.5091	16.4022
18553	97.8873	422.6867	51.0400	116.0270	94.4780
24431	97.8873	1458.2500	236.1872	399.8840	302.3252
16327	97.8873	80.4867	5.8849	170.6925	53.1228
9501	97.8873	356.4200	53.7191	187.7905	42.9664
23781	97.8286	54.0967	4.0951	21.9835	12.7267
25528	97.8286	106.8133	30.6038	37.7109	14.0360
25682	97.8286	30.3067	3.7154	73.2820	30.3069
16613	97.7700	304.4900	10.6274	165.6273	61.8232
18895	97.7700	335.2700	22.9533	204.5314	47.9066
21372	97.7700	83.9000	7.9815	35.7524	25.8834
16607	97.7113	76.2733	0.7472	93.1454	31.0277
25679	97.7113	3262.0667	85.4511	2307.4418	495.9447
2802	97.7113	287.4000	23.0774	508.2268	123.1165
11350	97.6526	11.5533	0.2967	24.4017	14.1174
17158	97.6526	179.8267	20.6158	57.0472	53.6574
7864	97.6526	1981.3600	93.3036	1386.8293	210.7234
15446	97.6526	588.8367	5.8295	440.2583	107.8880
1639	97.6526	46.6933	6.5739	114.1908	36.1461
23524	97.6526	888.3567	70.4133	394.4549	192.5390
402	97.5939	103.2833	49.8744	1077.5835	530.1980
16576	97.5939	75.5167	3.0230	40.0877	15.5691
6522	100.0000	1968.4300	148.0193	695.1637	184.3169
22994	100.0000	172.8467	15.9732	36.8467	36.2080
17191	100.0000	631.8700	40.1597	130.3766	57.7180
9984	100.0000	267.6333	28.8770	68.3918	22.5913



TABLE 5C: APAP					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
9985	100.0000	674.9700	23.4601	165.1377	39.3858
6521	99.9413	514.6400	52.6171	171.6850	49.0532
23068	99.9413	104.9967	3.0839	301.1018	100.6838
11695	99.9413	367.1833	23.4211	164.3552	48.6426
12542	99.8826	1802.8400	136.9358	376.6228	123.5600
12475	99.8826	395.5967	9.2602	174.2870	70.2874
22311	99.8239	368.4967	3.7352	163.2658	55.1799
24213	99.8239	2045.8967	131.8617	1061.7206	203.5007
16389	99.8239	173.4967	5.3095	66.7760	39.0675
4097	99.7653	79.9267	22.8934	3.0603	11.0234
2607	99.7653	662.7800	78.0727	293.8548	61.7989
21956	99.7653	98.1300	7.5346	249.1019	52.6859
11167	99.7653	281.4333	7.5405	158.2284	35.8893
3005	99.7653	97.9367	3.3580	35.8346	16.9840
5074	99.7066	278.4900	23.3951	70.8190	36.1596
6205	99.7066	1288.3400	126.2781	549.1274	102.1613
2679	99.7066	150.0800	9.1234	283.4974	42.8420
6930	99.7066	190.0067	30.7149	43.5522	18.4002
18280	99.7066	5916.7333	1020.0622	1157.7615	460.7589
8020	99.7066	324.9367	6.8947	179.1750	46.1026
4095	99.7066	141.2067	55.8411	-5.5369	24.8092
18612	99.6479	425.7967	9.1978	222.1975	67.5419
11934	99.6479	654.1200	46.6177	305.7983	73.5168
12177	99.6479	72.5967	0.2676	99.0290	31.5028
7918	99.6479	43.0767	1.5627	118.6390	34.8780
19566	99.6479	423.1200	22.6112	212.2174	61.7272
3986	99.6479	227.9400	10.7655	86.9262	29.3074
12372	99.6479	165.1867	3.3621	85.5917	27.8416
15949	99.6479	327.5167	16.0266	155.0162	33.9501
24212	99.5892	2324.7367	191.5912	1130.2271	237.8618
2513	99.5892	132.7533	7.9340	31.8050	28.2157
2355	99.5892	633.5000	14.2379	387.5819	90.3883
4881	99.5892	124.2967	0.3881	112.9733	47.1381
6730	99.5892	58.4333	20.5060	-31.1792	21.8676
17339	99.5892	623.1733	17.9148	266.7174	296.0186
8036	99.5305	924.2000	272.5005	115.0638	52.9874
6731	99.5305	49.9567	3.3194	9.3945	12.8125
9987	99.5305	58.6700	34.0338	-77.0584	51.7029
13544	99.5305	451.1367	5.5307	290.4937	74.3729
21410	99.5305	208.8567	0.5749	290.8960	105.9309
2954	99.5305	1364.8667	302.3458	195.0317	103.0005
9386	99.5305	112.1433	10.4855	295.9813	87.0384
7281	99.5305	499.9433	63.2290	212.6755	53.9126
2762	99.5305	4570.0300	1382.3233	787.7552	277.2978
16380	99.5305	863.1100	84.4538	410.4057	126.4365
6474	99.4718	60.4333	0.8808	117.0451	29.8100
4046	99.4718	343.9167	13.2171	163.0200	69.2096
14292	99.4718	5091.8067	1584.2719	813.6737	344.1822
6929	99.4718	231.0667	35.7028	55.0348	28.9698
19756	99.4718	631.9867	41.9889	267.5566	110.0864
5327	99.4718	202.8267	41.1461	34.3415	26.1075
2250	99.4131	7537.1700	1059.4558	1627.4254	583.8293



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TABLE 5C: APAP			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6254	99.3545	239.7500	111.4009	-1.4705	34.3790
13190	99.3545	154.2533	5.4056	79.7578	29.8057
19195	99.3545	3390.7767	25.6454	2248.2852	549.5162
16088	99.3545	91.9667	2.2236	182.5546	48.4071
21747	99.2958	347.6100	4.1478	577.5340	117.7814
6743	99.2958	567.2700	51.8693	1001.3272	175.5170
10986	99.2958	6.1700	2.0880	91.2459	51.6085
22970	99.2958	139.4967	41.6315	-3.2291	38.2572
22596	99.2958	77.3567	2.8055	165.4281	53.3266
16945	99.2958	1779.5333	66.9230	1109.0688	208.8481
6506	99.2371	727.0000	50.8762	355.3469	84.8725
2781	99.2371	3.8800	3.0938	140.4973	94.2682
4722	99.2371	96.3767	5.1514	35.1113	23.8239
13098	99.2371	575.7700	51.7092	189.1089	93.1684
7092	99.1784	1525.6700	52.1908	939.1531	209.5750
13740	99.1784	425.8500	8.5001	290.6156	46.1641
8398	99.1784	199.1200	9.9964	91.3519	34.1304
21504	99.1784	3049.2467	564.2810	741.9966	237.0281

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TABLE 5D: APAP					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
7096	99.5300	8.8025	2.1642	58.8955	24.5748
23000	99.4125	11.9175	2.5110	42.4073	13.5671
12978	98.5899	59.4550	9.1613	186.2018	92.3491
25899	98.4724	4.7325	1.7898	27.5541	12.8572
15401	98.2374	190.6050	43.3682	82.6121	33.8893
25103	97.5323	18.0800	1.0907	30.8700	38.4395
252	97.4736	19.1150	0.5332	33.2151	12.2893
1170	96.5335	120.4400	5.6101	267.7128	129.4942
4683	96.1222	116.5075	7.0379	200.6738	60.5369
13485	96.0635	30.1000	0.5207	43.4102	19.0447
16825	95.8872	15.3325	2.4347	46.1190	24.9225
24066	95.7697	15.7975	7.9453	52.6179	17.6657
20515	95.4759	86.3425	1.5363	109.6628	28.3797
21239	95.4759	169.4225	36.4198	424.4383	146.3786
7170	95.1821	38.5000	3.4757	66.7824	19.2410
17128	95.0059	37.7325	12.2574	93.0797	29.1857
8598	94.8296	35.2950	2.8068	63.9389	21.6690
7266	94.7709	573.8200	32.4097	373.7213	113.6404
20182	94.6533	186.1375	29.8953	105.0519	39.2205
1058	94.6533	382.5600	68.9621	180.0567	113.5756
1260	94.4771	17.8350	5.9331	49.1813	17.3894
4349	94.4183	23.8275	0.8574	20.2237	14.0855
21683	94.3596	12.8800	5.7920	50.3082	24.5157
14606	94.3008	43.2425	10.6302	95.8142	28.9036
904	94.1833	24.3350	5.6076	49.2998	13.0363
17131	94.1246	59.6500	7.9624	115.0877	37.7876
10340	94.0071	50.2475	1.3385	65.5841	26.8410
15579	94.0071	363.2750	27.4364	597.4441	506.1998
23324	94.0071	109.2025	22.2909	44.9832	63.3624
24107	93.9483	111.5950	2.1406	153.2069	56.1474
25112	93.9483	6.8650	2.9919	26.4261	14.3220
1169	93.8895	67.7525	11.7128	179.1938	85.1520
4577	93.8895	20.6075	0.8344	28.3634	8.8634
15188	93.7720	100.2725	24.3600	182.0351	41.8199
23926	93.6545	35.5100	2.3428	8.7056	60.5796
2016	93.5958	114.8175	6.3649	163.5275	33.3586
15642	93.4195	1589.7725	327.7097	929.3076	324.2229
16499	93.4195	21.4000	1.9792	5.1991	14.6482
5656	93.3020	19.1950	5.2352	39.5487	12.7064
25496	93.3020	74.1775	4.2640	104.6852	25.4088
269	93.1845	81.5850	3.1827	117.2364	44.2898
20840	93.1257	36.2950	5.7126	69.8897	22.6940
1806	93.0670	6.4525	2.9939	32.6495	24.6001
11079	93.0670	115.7100	4.4728	106.3768	39.4286
19679	92.9495	122.7300	15.3513	73.8382	49.4282
17304	92.9495	55.5150	2.2319	63.2332	37.4111
16108	92.8907	88.5975	9.0119	131.2886	27.0740
12087	92.7732	361.5400	37.7432	192.0296	91.5937
3512	92.7145	84.1900	11.9679	146.3744	45.8898
1855	92.7145	7.8325	2.3374	21.2220	10.2294
3240	92.6557	7.6875	1.6237	21.3009	12.8298
7789	92.5969	14.5675	0.6985	22.6809	17.0871

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TABLE 5D: APAP					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
734	92.5382	21.6475	4.1430	39.5222	12.2859
15152	92.5382	56.1075	4.8717	94.0495	39.4272
1561	92.5382	345.4650	22.7745	246.7394	147.2155
17858	92.5382	141.1875	6.7558	190.8929	37.4549
21162	92.4794	1.9600	3.0131	40.5579	64.3726
17661	92.4794	459.5125	62.5970	308.9890	83.0797
20803	92.4794	568.5500	11.9340	522.6252	128.1331
17100	92.4207	2126.6075	47.4035	2114.7200	460.6116
11531	92.3032	21.6500	1.4624	39.1081	20.0134
15844	92.2444	11.5625	3.6536	23.0384	6.9503
24645	92.2444	140.1350	5.7923	115.3548	43.9159
15997	92.1269	233.9050	19.6299	291.6676	219.3167
21827	92.0094	77.6000	24.6701	148.4808	36.9971
11863	92.0094	15.3825	2.3374	28.0473	9.2716
17130	92.0094	110.1875	16.5072	201.5343	58.1037
25862	92.0094	8.0350	2.3861	24.8522	13.0127
10504	91.9506	311.9150	13.6702	329.1181	200.4643
3877	91.9506	104.0650	5.1455	142.8524	37.5065
17154	91.8331	281.3150	7.7221	284.0276	75.4471
9391	91.7156	625.1725	43.1230	454.6670	116.5087
17129	91.7156	10.0500	2.8529	25.5615	15.8567
11313	91.5981	13.3350	3.1925	25.8944	8.5545
1995	91.4806	405.5200	52.2144	278.1466	212.8740
18180	91.4806	37.4975	1.6927	35.7117	16.1218
1386	91.4219	95.7600	10.2254	147.1360	38.0292
1798	91.4219	1133.5450	76.5602	1198.7445	663.2441
19709	91.4219	7.6100	2.5888	22.1400	13.1498
22301	91.3631	24.4275	0.8275	30.8226	20.2706
3513	91.3631	97.1725	20.1569	190.3459	66.6944
17843	91.3631	12.1550	2.2620	30.6029	18.5957
16479	91.3631	43.6000	2.2122	63.7131	19.3431
382	91.3043	79.3100	12.1470	43.6374	43.4560
17684	91.3043	67.7900	4.2872	62.1906	33.1932
5317	91.3043	688.2775	56.5133	692.8058	479.6152
8870	91.2456	12.5250	9.9560	47.9946	28.5628
1632	91.2456	27.9100	1.4986	33.3400	18.5449
18881	91.2456	24.3600	1.8481	16.4245	6.1903
13307	91.2456	5.1175	4.5511	34.9725	23.2619
4339	91.2456	120.4850	8.9192	171.7809	37.7485
24506	91.1868	35.5750	3.7338	47.1151	69.7806
24589	91.1868	156.6975	13.1227	99.2475	43.0384
19222	91.1868	1129.5850	59.0020	863.4332	182.6511
16138	91.1281	59.3050	10.8771	102.7867	29.6238
11940	90.8931	22.9700	10.7755	51.1598	16.2242
16993	90.8931	172.1400	18.1313	111.0194	66.1164
17957	90.8343	27.6100	4.5128	46.4370	14.0635
22009	90.7756	27.9000	1.5413	34.8772	15.0597
2119	90.7168	25.7550	4.5100	41.5996	11.3876
17484	99.8237	296.5900	24.0916	114.6340	34.2202
15280	99.8237	56.4375	3.1817	120.6087	29.1945
9605	99.1187	70.5200	6.8104	163.1478	45.9187
18447	99.1187	1204.7050	149.5109	404.1362	129.4772

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TABLE 5D: APAP			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2250	99.1187	5568.6200	1219.2733	1629.7338	623.5503
10233	99.0012	54.1050	9.2568	176.3844	58.9829
19379	98.7662	1215.7375	24.8818	805.6366	183.6969
12542	98.7662	1021.7525	290.8539	378.6183	142.2927
22451	98.4724	168.9425	12.3015	93.6291	34.5389
9089	98.4136	-2.5800	0.5079	42.5416	53.2086
18658	98.2961	2196.8850	214.3939	892.2216	361.9912
23115	98.2961	788.8525	182.1200	193.3938	153.5716
6254	98.2374	81.6575	45.4698	-1.0109	37.1194
18446	98.2374	448.3175	114.2497	99.0030	48.6653
24239	98.0611	957.8325	27.9050	663.5669	147.0674
6489	97.8848	128.9075	8.7726	239.2584	57.8421
5471	97.6498	149.0475	14.5816	66.1577	36.6653
13262	97.6498	75.3975	3.2197	116.9107	26.2743
11028	97.4148	21.6775	1.4722	55.3397	30.8757
24166	97.4148	248.3025	23.5662	435.6270	84.5070
21130	97.3561	98.0400	22.1590	241.2839	76.6858
23027	97.2973	357.0950	125.1845	109.1604	63.9898
12979	97.2385	346.7725	41.0457	895.8667	426.8559
6384	97.2385	54.9925	31.5034	218.9759	69.5079
5073	97.2385	413.3575	125.0664	127.4450	90.4538
18505	97.1210	96.7575	12.2612	189.1475	54.2202
21504	97.0623	1443.5450	230.3985	746.8328	270.6645
6791	97.0623	1515.2125	124.7331	664.6464	340.9147
15644	97.0035	2784.8025	406.7310	1507.7514	391.4188
22688	96.9448	48.6900	5.2073	189.3009	109.3565
18977	96.9448	67.6275	11.3929	23.2862	16.6057
19184	96.7685	144.6925	30.4252	465.5574	221.1904
26118	96.7685	394.7400	49.7311	214.5454	64.8190
11135	96.7098	121.8425	13.0704	59.3226	27.5878
17482	96.7098	246.5025	43.1950	104.8441	44.0051
7751	96.7098	82.2350	26.6289	27.3013	17.7075
18115	96.6510	12.6875	3.6213	105.6400	76.9781
7647	96.6510	78.0625	2.1044	114.3698	25.8109
13702	96.6510	2.0475	2.2234	28.2887	19.0053
3617	96.6510	539.0275	49.9588	873.5382	190.6386
14267	96.5335	1090.6100	123.2935	636.5769	263.7684
21913	96.4747	55.8475	11.7951	116.7997	27.8677
22712	96.4747	3.3075	3.3811	29.4462	17.6086
21561	96.4160	2.9450	3.7673	42.0632	28.7155
22970	96.1810	81.0325	35.8981	-3.1220	38.7729
16754	96.1810	91.3600	36.9542	264.2357	84.4353
7379	96.1222	48.3700	3.3151	95.4708	35.5532
13704	96.1222	42.6200	2.6121	65.8035	20.4275
22395	96.1222	184.2000	27.9360	345.5862	90.5226
20566	96.0047	39.4675	5.6584	12.9169	12.1278
4478	95.9459	164.5875	64.3145	39.7471	48.0157
3597	95.9459	72.4525	28.8316	9.3649	22.9664
24190	95.8872	104.9700	30.8553	321.0467	106.6381
18235	95.7109	51.7550	5.3352	93.0842	25.1438
22686	95.6522	175.8750	79.2795	145.0658	32.6400
21176	95.5934	-37.2625	14.5363	105.9687	117.9199

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TABLE 5D: APAP					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22595	95.5347	1088.8225	106.0272	707.4990	159.3306
13389	95.4759	21.4625	2.7460	59.8904	31.2367
6552	95.4759	3755.3175	592.2922	2149.9622	616.9073
24745	95.4759	1986.1850	89.7452	1470.6746	267.8751
2422	95.4172	16.0300	6.6954	62.9213	28.8767
16673	95.3584	29.4200	6.9349	60.9729	22.7704
2850	95.3584	15.1525	2.2294	33.0466	12.6184
17483	95.3584	20.1375	1.2520	11.0384	9.9516
23007	95.2996	2.3625	4.6309	22.2332	13.2647
16578	95.2996	616.8975	24.2227	456.6515	107.9740
15504	95.2409	40.7275	2.7203	12.8941	35.4411
19495	95.2409	98.8900	11.1578	54.5442	26.5099
23379	95.1234	327.4775	168.9093	264.6640	65.5405
15984	95.1234	77.6200	16.7135	148.9644	37.2649
18943	95.0646	1071.5625	161.7169	635.7350	194.0796
12588	95.0646	47.6000	5.5872	90.6607	28.2380
7521	95.0646	23.1000	4.0925	72.1363	37.0846
22058	95.0646	16.1525	4.8821	51.3316	19.7832
13555	95.0059	56.8400	5.5827	106.8458	33.3741
22559	95.0059	406.9000	25.3093	253.8055	112.8122
22617	95.0059	2049.4375	159.4037	1296.8578	368.9993
12321	95.0059	40.3900	7.2929	87.3672	26.9394
22017	95.0059	138.6975	21.9975	67.4823	72.0425
7628	94.8884	23.4650	9.1093	-2.6628	17.3442
4856	94.8884	36.7325	13.3821	116.7521	48.1624
9746	94.8884	260.9025	39.3829	124.2830	65.6026
17253	94.8296	293.2975	10.8520	158.3254	124.7764
2462	94.8296	-52.0175	63.5847	85.9253	58.3485

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TABLE 5E: Ay-25329			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
192	99.8239	50.5900	4.9254	8.1404	8.0040
190	99.6479	142.1433	33.4751	-27.1779	23.2822
18028	99.5305	524.4900	67.1830	70.4836	56.1651
6013	99.5305	210.9300	0.7882	527.3891	270.0111
193	99.5305	359.7900	105.5128	26.2667	25.8989
19332	99.5305	4.9833	0.6634	49.8328	35.6162
191	99.4131	249.5833	52.7951	36.6039	25.6612
5493	99.3545	340.2467	21.4290	122.6623	59.2893
18027	98.7676	439.8567	86.6104	104.8121	50.0470
15696	98.7089	26.8100	0.5651	4.4260	14.9067
17995	98.6502	154.1433	1.6574	546.3056	370.7675
24649	98.5329	140.1000	1.6328	92.1496	26.4749
2143	98.4742	554.0300	8.3372	400.6795	83.0525
19050	98.4155	154.6767	10.3920	80.6395	29.6965
3831	98.2981	155.4433	1.5353	125.8643	63.4397
11756	98.2394	43.0000	0.9906	98.1459	66.6702
1471	98.2394	22.7200	0.1931	39.0220	19.5713
5492	98.1808	376.6033	75.5901	118.0557	65.9463
4010	98.1221	181.0567	3.2993	786.8278	550.3464
1382	98.1221	115.5700	0.4951	115.0427	27.5981
4012	97.9460	137.8867	4.4446	526.6647	309.8667
17147	97.8873	839.7800	14.6223	1709.5554	970.8092
25057	97.8873	206.0967	39.4156	47.7405	33.6075
19020	97.8873	78.3567	1.0180	58.2582	18.9872
23041	97.8286	63.2333	1.1711	28.0313	36.8550
1529	97.7700	132.2433	1.0492	113.8026	47.0761
4540	97.7700	47.4000	0.3576	57.7065	25.4625
1522	97.5939	376.8433	49.5235	133.4522	79.0320
15857	97.5939	242.3067	6.2311	171.5835	45.5927
24883	97.4765	3.1067	1.1686	33.6264	24.0792
489	97.4178	2510.7867	668.7792	438.2292	456.7883
4212	97.3592	2813.1500	62.2953	4623.0827	1366.4076
18150	97.3005	297.6267	13.9709	191.0128	44.7739
18349	97.2418	127.1567	2.6039	224.1898	92.4037
25328	97.1244	77.5267	0.7506	63.0118	21.9550
20744	97.1244	97.8900	1.5088	73.6626	48.1547
2107	97.1244	162.5333	3.6979	113.9964	38.2226
4487	97.0657	97.4967	1.9068	48.6883	40.4020
1508	97.0657	161.1467	6.3293	267.2798	123.8161
1271	97.0657	206.6267	5.1341	140.3387	36.0158
25098	96.9484	58.1767	1.2029	35.7683	20.4305
25949	96.8897	41.9433	0.3853	46.3301	20.5893
2753	96.8897	36.1100	1.0672	42.2632	33.2088
25801	96.8897	109.6700	5.1065	30.7146	115.3006
8210	96.8310	42.1467	4.6013	14.1151	17.2530
17560	96.7723	1306.9633	21.4633	1170.6436	525.8797
24653	96.7136	44.3967	4.9832	15.7796	12.3568
819	96.7136	941.8800	38.9477	1702.4032	945.9157
18990	96.6549	33.9067	1.0324	33.5855	35.6224
1308	96.6549	70.0667	0.9823	55.3598	23.2480
7927	96.5962	70.2667	1.7400	45.6521	28.1624
13479	96.5376	310.9033	34.2642	164.6665	58.4256

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TABLE 5E: Ay-25329			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17480	96.4789	29.7300	0.8487	48.3151	34.2346
19049	96.4789	53.4200	1.4451	36.9941	11.7790
1698	96.4202	1512.4367	541.0817	441.6654	239.4362
13547	96.4202	238.1467	7.5976	164.9258	55.9441
21665	96.4202	143.2867	4.0796	101.9201	37.6385
1608	96.3615	69.6467	4.6158	18.6671	25.3792
4292	96.3615	32.3933	0.9261	54.2326	25.4056
18544	96.3028	24.4200	0.3045	29.3746	8.4750
13969	96.3028	27.4067	0.6413	23.1601	20.3594
1693	96.3028	47.8733	3.1905	8.1141	29.9617
20438	96.2441	354.7267	3.9289	308.0016	85.3288
16109	96.2441	478.0900	32.0430	297.3074	85.7848
1674	96.0681	32.1367	1.2016	45.2912	30.5203
1559	96.0681	77.6733	1.8707	55.6769	25.2180
16272	96.0094	128.4033	6.5974	337.2285	180.8575
11865	95.9507	48.0167	1.2439	50.2143	29.0790
1339	95.9507	21.0233	0.4051	18.4668	9.7705
1835	95.8333	76.7767	1.6489	112.8462	45.2731
1463	95.8333	337.2100	30.9159	144.7256	84.8924
1683	95.8333	20.4333	0.3194	19.3551	9.0679
2263	95.8333	63.6933	0.6897	65.1829	19.1841
17508	95.8333	96.3733	8.9416	55.7992	19.5631
16947	95.8333	136.7733	21.8195	346.3625	139.4977
16304	95.7746	174.1367	8.2022	316.3077	162.1031
25713	95.7746	28.8533	0.7753	37.9252	20.9867
1501	95.7746	1354.0800	72.5087	2213.4915	566.4845
21424	95.7160	268.2033	8.4967	389.1401	95.9650
21488	95.6573	81.7400	7.5306	41.8202	17.5053
20518	95.6573	127.8133	2.5460	116.8656	40.1474
1558	95.6573	123.0067	8.4021	71.5809	35.6994
25042	95.5986	24.7667	0.9931	47.4573	24.4716
20816	95.5399	1024.2167	30.6503	851.8755	394.8442
16346	95.5399	268.8633	21.5600	160.7518	66.0735
25479	95.4812	354.5733	5.5004	436.2706	164.4732
24849	95.4812	3.2700	1.6756	23.0494	16.8298
7898	95.4812	1709.9667	154.3895	3223.1676	1138.2456
3254	95.3638	549.2100	7.0530	481.4882	127.2471
2744	95.3638	406.3767	8.1912	314.9587	86.4353
14859	95.2465	333.2100	29.1366	202.3538	57.0808
5496	95.2465	66.0300	6.3902	164.6468	97.5388
14384	95.2465	580.6200	26.1895	408.8050	97.6933
17953	95.2465	247.6200	14.0815	175.3613	43.7937
1309	95.2465	77.3000	2.1556	56.2805	22.7967
21707	95.2465	180.1867	5.7874	146.5187	82.6364
16955	95.1878	568.3467	6.5116	585.5587	181.5563
21843	95.1878	200.6233	14.6176	124.8148	35.0886
15750	95.1878	41.2967	1.6511	24.6614	11.8698
737	95.1878	45.0533	2.0552	20.9840	25.9469
15200	99.5305	79.1500	0.1819	79.5625	44.7894
2161	99.4131	487.8733	17.6574	190.2738	80.8372
8692	99.2371	114.5467	1.2979	257.7685	142.0990
10829	99.2371	20.2367	0.3612	48.5766	20.8523

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TABLE 5E: Ay-25329						Attorney Docket No. 44921-5113WO
Timepoint(s): 24 hrs						Document No. 1926271.2
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
5272	99.0610	139.2667	1.5723	34.4273	80.0283	
5692	99.0023	310.0333	1.2810	433.0616	111.7953	
12412	98.9437	23.8000	0.1559	9.2227	17.5190	
7711	98.8850	12.0167	0.1877	23.5190	23.4336	
9407	98.7676	151.6833	3.0104	461.6438	427.8043	
22037	98.7089	176.9600	0.6365	184.3368	55.4198	
5759	98.7089	70.0600	0.5738	121.1328	62.8226	
24307	98.6502	195.5867	0.9280	261.9180	101.2259	
16010	98.4742	43.7733	1.2458	21.7906	15.6498	
24073	98.2981	58.1800	3.0905	11.1551	32.9037	
21489	98.1808	249.6767	14.7118	144.4374	35.7640	
23176	98.1221	97.1900	0.4957	87.8247	36.3900	
6143	98.0634	2245.4633	167.8408	650.4672	571.7397	
4661	98.0634	73.8967	2.7148	66.2992	59.3843	
2933	98.0047	28.7300	0.2615	35.4785	18.3467	
11774	97.9460	13.0600	0.2691	21.3834	21.1584	
4699	97.9460	45.0367	1.2851	75.2419	48.5429	
11518	97.8873	866.3333	5.0257	700.7905	152.2198	
3926	97.8286	161.7933	1.5088	169.5411	75.3381	
7899	97.8286	97.1133	2.0311	197.7857	105.8826	
14128	97.7700	23.4533	0.3164	27.8790	16.4904	
13545	97.7700	166.1967	21.3480	-42.6609	90.7246	
13298	97.7113	83.8033	0.9404	112.3971	60.2811	
24144	97.7113	85.0733	1.6774	136.4863	58.5385	
3766	97.6526	1104.0800	21.8812	1701.8873	523.1631	
9968	97.6526	58.9033	1.0584	94.7145	47.1795	
11798	97.5352	70.2967	0.5886	99.5352	39.9368	
12166	97.5352	19.0067	0.2747	22.2075	15.7144	
18831	97.4765	4809.9200	69.6443	6750.4066	1537.9084	
10096	97.4178	65.7900	0.6657	76.3099	31.8946	
21762	97.4178	466.5167	4.5356	376.5299	92.5215	
16079	97.3592	256.4833	2.1796	236.7633	69.5309	
23943	97.3592	193.3133	1.9399	238.6120	138.7008	
23151	97.3005	10.1833	0.8635	34.5003	22.6926	
12572	97.3005	72.6600	1.3066	110.4397	44.0860	
14361	97.2418	110.6000	2.8727	55.7494	72.3869	
19288	97.1831	187.8967	37.1048	28.8610	54.8651	
11228	97.1244	490.0467	9.7160	364.7764	145.4307	
24046	97.1244	108.2300	1.7785	105.7480	105.8608	
22755	97.1244	127.2467	2.3448	83.2311	39.9777	
9721	97.0070	20.3833	4.0155	99.4118	58.5648	
18612	97.0070	342.4933	8.9446	222.4908	68.2419	
7113	97.0070	258.9567	29.7332	132.9384	44.7526	
21095	96.9484	117.8333	1.1484	150.2953	45.7433	
23955	96.9484	128.7667	16.9215	38.1743	33.4258	
4251	96.9484	662.4133	30.4248	362.9457	144.8585	
5151	96.9484	60.9833	1.7539	104.3052	54.4726	
3690	96.9484	215.8300	64.2400	49.8174	39.1039	
9657	96.8897	86.2000	3.2922	15.2155	54.2610	
8047	96.8897	52.2700	8.8581	-42.9515	63.3252	
18422	96.8310	38.5533	0.7600	39.6485	23.5532	
17368	96.8310	235.3267	4.7107	175.3676	47.9310	



TABLE 5F: Ay-25329					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18430	97.8799	244.4133	59.6164	71.4675	41.6287
13464	97.8799	105.1833	8.0050	46.4058	31.0661
14295	97.1731	88.9483	17.8311	33.4665	16.1875
2628	96.9376	492.8917	34.5114	184.1623	135.2229
15937	96.8198	169.7067	34.6420	78.4724	30.5320
11494	96.5253	380.8500	49.2497	169.0470	144.6119
4524	96.4075	131.3050	9.6564	70.9689	30.5601
18405	96.4075	73.1433	1.3001	56.2209	16.3299
14353	96.2898	159.8883	9.8128	95.1852	34.5947
20359	95.8775	23.2233	1.5818	52.2767	27.9906
24196	95.8775	56.2083	16.0105	18.4056	17.8373
8641	95.8775	418.7433	123.4335	167.0685	79.7843
2629	95.8186	556.8817	149.7753	197.6202	116.9833
18949	95.6419	217.6067	13.5541	129.5842	42.4331
15224	95.4064	529.3033	45.4816	837.2908	188.2989
24195	95.1708	20.3117	6.6761	-3.8527	17.4214
22412	95.1708	1181.4517	96.9794	687.0701	451.2515
22413	95.0530	777.7333	59.6676	464.3818	282.6921
11455	94.9352	265.3333	43.1649	124.9575	68.1315
1495	94.9352	225.5533	25.5123	134.3143	44.7788
15703	94.9352	70.4600	13.9834	27.2264	16.2986
4683	94.9352	121.4117	7.6137	200.8374	60.5156
21951	94.8763	252.2717	27.3888	139.1377	49.0136
11454	94.8174	451.5483	73.5754	229.0866	103.9297
16825	94.7585	89.7350	12.1107	45.6657	24.7499
16346	94.7585	269.8583	28.7645	160.3627	65.8357
21069	94.6996	60.3067	2.3909	42.4731	12.3421
1070	94.5819	30.2617	15.0986	-2.9041	15.9980
18442	94.5819	86.7183	13.9898	48.8404	18.7263
13271	94.5819	126.9467	6.3864	86.0945	24.1985
1306	94.3463	270.6533	46.3224	151.2611	57.9675
19924	94.2874	142.2083	43.7937	53.2145	38.6505
22841	94.2285	377.3850	33.5481	237.2008	86.1178
21827	94.2285	88.1283	8.1489	148.5733	37.0364
25855	94.1696	57.7200	5.6047	117.2248	49.8470
11483	93.8751	883.2850	232.7277	391.2303	250.5088
21375	93.8163	76.8383	10.0983	43.5258	16.2520
6980	93.8163	20.1200	4.1902	50.3957	20.8092
14997	93.8163	159.6967	35.3579	469.4307	215.5138
2947	93.6985	149.2450	18.3877	81.5813	32.6704
17214	93.4629	537.1983	123.3613	303.7725	107.9353
1421	93.4629	107.4083	7.8489	152.5249	28.4429
10936	93.4040	386.2567	24.4089	285.8312	55.1814
21696	93.3451	513.0367	32.2830	366.5037	91.6917
923	93.2862	447.6017	76.9493	191.9330	109.2271
5655	93.2862	54.4933	5.1710	22.8081	21.3101
11493	93.2273	76.4950	11.3082	33.6475	53.6664
405	93.2273	415.8367	34.1897	214.7555	114.7106
18393	93.2273	262.2117	13.3125	196.4734	47.9128
23248	93.1684	81.5267	12.9663	39.7785	37.0517
22411	92.8740	84.2033	30.7726	37.2245	44.4022
20996	92.8740	388.8817	32.0371	250.0097	90.7838

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TABLE 5F: Ay-25329					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
606	92.8740	44.4467	12.7203	-8.6008	32.0556
10622	92.8151	194.4550	67.2120	45.3615	98.1684
18396	92.8151	757.9317	102.5283	393.7471	199.8948
19472	92.8151	921.4283	33.9163	734.7573	157.7721
21654	92.6973	1234.4150	106.7444	853.2560	222.8128
23211	92.6973	76.8150	4.8992	52.6554	16.7993
17581	92.6384	156.6733	23.5839	100.5028	28.8250
15313	92.5795	630.9917	78.0988	299.2288	167.9021
21989	92.5795	178.0983	25.4530	111.0253	34.2502
1598	92.5795	512.5183	123.0998	280.3115	272.4337
16982	92.5795	2994.6350	385.1215	1616.1479	977.2105
15402	92.5206	36.9500	11.0460	110.3461	59.5505
14632	92.5206	1058.1517	30.6674	937.6025	398.2665
23550	92.5206	26.7900	1.6882	41.6228	14.5863
18967	92.4617	46.7667	19.8022	159.5867	88.6779
1141	92.4617	143.3867	14.5223	224.5637	56.6202
19086	92.2850	725.2767	110.2406	400.0317	159.9841
10623	92.2261	157.1383	39.7242	67.7467	58.3618
1959	92.1673	728.9033	48.0728	1344.1193	856.2213
17908	92.1673	851.1117	160.5609	447.3364	270.3713
427	92.1673	743.2883	89.4843	1717.1696	924.3084
19962	91.9317	113.4650	29.0504	234.8810	75.8808
8768	91.9317	89.6550	5.9309	59.7671	20.8109
1949	91.8728	145.9350	18.9856	78.3360	37.9597
14066	91.8728	66.8400	4.3112	100.3023	28.4136
463	91.8139	65.4117	12.9313	41.0991	13.4054
17227	91.8139	891.5767	57.6923	1278.8168	339.1518
25170	91.7550	139.2517	29.8308	80.0907	33.5922
13160	91.6372	55.0983	10.6580	91.1136	22.2215
6554	91.6372	284.3233	25.0925	189.6051	66.0887
25701	91.6372	61.5150	3.4145	87.8364	26.0903
21670	91.6372	181.9217	13.8454	119.7302	44.8171
14968	91.6372	19.0850	6.8948	64.4396	34.8537
21842	91.5783	759.7133	123.9583	479.0880	261.8514
798	91.5783	79.7200	10.3744	52.4562	22.5528
23312	91.5783	91.9350	10.9517	57.3650	20.6881
2970	91.5783	946.5083	114.5514	462.1050	377.7985
22321	91.4605	1434.4917	198.8243	829.6159	434.5747
20204	91.4016	19.4967	2.0304	40.2957	20.2264
10626	91.3428	268.4650	66.5615	121.6039	93.3006
4957	91.3428	144.9233	8.2315	147.7554	68.3542
19730	91.3428	71.9250	11.4500	44.7419	40.5468
25799	91.2839	294.6833	45.3323	212.5137	141.5602
25756	91.2839	109.0567	5.1192	105.3100	50.6019
19222	91.2839	1125.1583	55.5409	862.8375	182.4373
15242	91.1661	114.5167	13.7470	83.3984	19.6550
20509	91.1072	96.5950	5.9580	71.2690	26.6920
17158	90.9894	87.5017	11.5433	57.2658	54.1871
3290	97.5265	613.4167	39.9942	314.5679	109.5502
4828	97.1143	142.4550	43.4747	46.8512	26.7454
9796	97.1143	255.0833	18.0860	123.2008	55.7286
21390	97.0554	405.1600	31.5841	193.6104	81.9021

TABLE 5F: Ay-25329			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2506	96.9376	398.0800	27.9546	218.1467	70.2029
11714	96.7609	61.7217	9.8318	247.6829	126.7089
8305	96.7609	375.7550	22.1251	183.0852	93.0472
22689	96.7020	232.9067	27.4459	97.7041	46.2643
3923	96.6431	139.4550	24.6741	54.1024	32.1015
22180	96.6431	178.1850	59.1702	61.6409	37.0427
16234	96.6431	301.8650	39.7464	162.4979	52.4535
9168	96.5253	509.6183	100.2313	185.4878	93.8896
5381	96.4664	306.8217	28.5645	187.0617	47.6178
14211	96.4664	209.1150	10.7566	119.0507	52.6792
7192	96.4075	102.5200	11.8983	38.9664	27.9945
19403	96.4075	754.6017	87.0801	415.5562	121.2843
23541	96.4075	890.8783	193.8994	275.9950	179.2010
2772	96.2309	184.5450	27.6946	100.9273	33.0488
3275	96.2309	336.9533	39.9584	178.2048	63.8171
21561	96.1720	114.9450	23.4685	41.3638	28.1508
15007	96.1131	668.6550	48.1401	455.1624	95.6014
11324	96.1131	46.2600	3.1691	96.2170	44.1997
169	96.0542	40.0800	3.3572	87.3002	34.3463
22517	95.9953	223.0367	40.6905	46.7656	73.5935
19271	95.9953	490.6917	53.7345	278.7017	95.6827
14768	95.9953	425.8033	108.9164	202.3506	66.2873
13758	95.8775	83.0517	5.7052	46.8549	18.7966
3307	95.8775	101.2317	4.0591	117.0139	53.3865
17540	95.6419	2146.7033	204.5770	1144.7223	422.9289
21213	95.6419	1280.9050	260.8250	655.9604	225.0079
21894	95.6419	336.2600	35.4620	177.3960	85.7771
19006	95.5830	10.7983	6.3550	77.7137	44.6839
21534	95.5241	407.5467	71.6526	156.6914	99.0124
5131	95.4064	372.5217	28.4889	222.5597	70.0298
10068	95.4064	202.3933	11.5238	369.9565	141.8671
6818	95.4064	158.7683	4.9907	231.9303	66.5161
12833	95.2886	104.2533	19.2388	51.5040	28.5502
8214	95.2297	69.6917	11.0812	-2.4645	50.2674
12713	95.1708	174.6267	6.9790	244.1152	65.7408
15091	95.1119	576.4117	48.8357	314.5218	119.7311
2501	95.1119	256.4683	36.4618	147.7495	48.9318
23619	95.1119	834.4217	102.6296	434.5440	153.2857
8966	95.1119	323.8550	37.2591	194.4778	70.4282
8020	95.0530	233.9050	5.5042	179.3032	46.7638
10020	95.0530	46.5100	5.9047	103.1178	45.7959
21839	94.9941	414.3417	43.1152	235.5447	80.1501
21573	94.9941	149.2700	7.8562	105.1396	25.9713
13265	94.9352	48.9750	9.3582	17.2554	12.6876
5630	94.8763	83.8650	3.9246	146.5377	80.0144
21214	94.8763	1552.6417	218.7283	901.2968	278.8069
4205	94.8174	1137.8867	128.3597	598.7179	242.8131
4707	94.8174	133.5667	12.9546	68.5205	32.2890
13229	94.7585	73.6167	5.4273	123.1325	32.5103
10750	94.7585	10.5883	0.9995	21.4047	25.8245
16554	94.6996	13.2400	1.6809	31.3074	38.2654
5781	94.6996	353.0233	130.2003	151.0561	90.8658

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TABLE 5F: Ay-25329			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21509	94.6996	-55.7467	14.6589	84.2766	90.4791
17948	94.6996	326.7133	28.9977	195.8269	70.0555
2093	94.5819	1588.8000	316.8382	503.8423	404.0605
2563	94.5819	720.3150	72.6944	451.8885	120.9167
4067	94.5230	662.1267	126.1669	343.2365	144.5664
5350	94.5230	175.5117	7.7610	273.7931	89.2739
24021	94.5230	214.7350	22.8421	351.3859	84.4421
6929	94.4641	119.9667	23.5626	55.1980	30.3598
15042	94.4052	287.3567	53.4370	125.5995	79.3029
17387	94.4052	386.0967	118.0665	72.4263	138.5332
21409	94.3463	296.5533	39.2811	152.9101	67.8517
3993	94.3463	204.8100	28.8425	132.1381	32.9209
2484	94.2874	126.1267	11.8361	57.2559	35.6616

TABLE 5G: CARBAMAZEPINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14123	100.0000	48.4980	0.7756	-11.6124	18.3792
24809	99.9413	180.3570	1.8345	56.8638	32.3758
25403	99.8239	64.0790	0.2905	25.4184	17.4170
15823	99.7653	83.4667	1.9097	-8.0912	27.0973
15805	99.7066	112.9880	6.5119	14.5016	20.1291
15316	99.7066	55.0293	0.3776	33.4617	8.5637
20865	99.7066	-37.6357	4.9729	34.6265	23.5257
5850	99.7066	44.4007	1.4649	15.7542	8.3847
1164	99.7066	46.5737	0.4884	18.8003	11.7037
790	99.7066	55.8813	1.7601	13.0070	31.9294
15186	99.6479	126.6513	0.1590	114.2720	42.5942
1318	99.5892	135.9500	8.4584	6.1624	39.5671
25505	99.5892	53.0530	0.6712	24.0215	12.1296
21007	99.5305	-16.9577	1.1134	136.6015	135.1118
24205	99.5305	160.7647	9.8152	72.5590	23.4742
7960	99.4718	41.7373	1.9215	9.8023	8.1546
24410	99.4718	45.8827	1.5862	8.2973	11.3059
1389	99.4718	243.8687	24.1626	-2.5747	56.8163
23897	99.4718	64.6800	3.7886	10.4497	15.5433
20410	99.4718	279.9763	5.6300	70.7098	45.3260
21054	99.4718	3.5047	5.6705	174.0597	99.2673
20014	99.4131	91.9310	5.4248	14.5709	15.9063
12072	99.4131	81.5930	4.5469	27.4857	17.7969
22890	99.4131	-2.8330	3.4395	59.6139	33.0271
2000	99.3545	45.8990	2.7151	10.1577	8.5937
3886	99.2958	1.0683	1.0933	36.3414	18.0822
25416	99.2958	74.3677	7.2411	16.8752	44.2188
1968	99.2371	50.4590	3.9402	10.1379	11.2938
19786	99.2371	38.7987	1.9629	10.1821	7.3119
7351	99.2371	150.8150	11.3270	42.1127	24.3023
21034	99.2371	96.3640	12.6094	1.5747	18.6184
16255	99.2371	155.2367	9.3656	1112.7028	612.4604
23862	99.2371	-33.3880	6.6373	66.6017	36.1225
17916	99.2371	88.5927	0.6726	63.7029	19.9293
6672	99.2371	86.9130	0.3191	117.2217	54.7811
1552	99.2371	-9.1733	2.4677	85.4641	66.1090
9516	99.2371	37.1223	2.1698	15.5424	56.3491
1914	99.1784	196.7423	11.3560	87.7237	33.2131
17999	99.1784	318.9597	39.2363	967.8914	261.2563
18924	99.1784	84.9983	3.5681	30.6930	17.5419
9126	99.1784	321.0840	22.8784	106.5052	51.6009
20831	99.1784	50.0190	8.3389	164.8933	50.8114
25195	99.1784	105.6267	9.2087	23.5897	19.3267
4601	99.1784	29.1593	2.2838	-1.0195	15.9477
18365	99.1197	131.8590	0.6389	101.3220	30.1635
18897	99.1197	366.1280	24.8456	117.0836	56.2510
7693	99.1197	56.9730	2.7278	22.3518	11.0319
18727	99.1197	741.6577	1.6270	881.8320	229.7376
1049	99.0610	257.4263	18.7145	110.2200	33.3008
313	99.0610	157.1730	6.2781	72.5416	30.0850
26001	99.0610	75.3957	0.7580	23.4137	51.8819
16301	99.0610	21.6367	0.4663	146.4527	147.2906

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TABLE 5G: CARBAMAZEPINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11	99.0610	45.1377	5.3267	-3.2473	13.4996
20863	99.0610	273.8600	9.6637	123.7345	44.5968
13938	99.0610	121.9280	13.9465	26.9523	21.3376
20153	99.0610	85.0960	7.7296	319.9229	120.1068
9840	99.0610	269.0617	16.7867	1116.7820	503.8976
24732	99.0023	68.6833	5.9190	22.9610	12.6860
1840	99.0023	165.6460	4.9015	66.3054	30.2296
25936	99.0023	30.7817	1.5750	9.7733	7.6718
23522	99.0023	439.8797	10.7217	251.5698	78.8198
926	99.0023	114.5767	6.8464	41.7867	23.9772
1575	99.0023	54.0730	4.1433	13.0610	11.1845
22872	99.0023	215.2283	3.5063	144.2281	27.4511
25515	99.0023	24.3793	13.2816	-11.9388	8.8595
18000	99.0023	431.1557	62.3955	1239.1314	347.3849
18338	99.0023	85.6710	4.6222	26.2959	17.7964
11836	99.0023	78.7933	3.3954	27.3050	15.8532
21794	99.0023	140.7727	10.0847	51.4299	27.2684
17277	99.0023	143.6707	14.5302	46.9303	25.0079
25196	99.0023	110.5447	11.8558	22.3283	31.0538
1925	99.0023	181.1357	4.5046	95.4820	34.9458
7489	98.9437	77.9070	5.1620	26.2102	15.5952
24107	98.9437	393.5383	34.3071	152.1653	54.3095
21683	98.9437	144.5073	13.3131	49.8008	23.9805
692	98.9437	34.8557	0.9564	13.5990	10.2824
1896	98.9437	34.7883	0.6874	16.2825	8.2526
3430	98.9437	953.4527	25.0185	500.6999	183.2857
25753	98.9437	79.6427	7.7013	-17.8280	32.6002
24528	98.9437	55.0493	5.1799	16.9409	10.6080
25336	98.9437	168.8077	17.8126	29.9355	27.7323
25222	98.9437	25.5017	1.3525	10.4093	8.1741
17991	98.8850	108.9530	14.7206	24.1683	16.8260
536	98.8850	55.4430	7.0163	13.0676	10.0571
24568	98.8850	53.7473	3.6314	21.7335	13.0969
1480	98.8850	107.7950	11.6472	347.8121	122.6750
18533	98.8850	90.3800	13.4304	9.7228	24.1083
631	98.8850	25.9430	0.7283	10.9174	6.1250
13488	98.8850	-9.1863	7.5260	29.3408	12.6819
24869	98.8263	305.1247	16.2346	96.4816	60.9388
25244	98.8263	95.2620	5.4541	19.2113	17.8717
1120	98.8263	55.6800	2.4398	23.7226	11.9836
4721	98.8263	99.9530	8.2323	39.0086	16.5644
17676	98.8263	23.5260	16.1556	908.5257	764.6878
8831	98.8263	328.0247	47.4173	52.6739	70.0195
15727	98.8263	75.0070	9.4361	20.8071	13.4201
9174	98.8263	60.7883	5.6686	14.6962	18.1791
1853	98.8263	1315.8550	6.7931	1828.9867	535.5986
17486	98.8263	46.2910	9.6281	5.0471	8.3023
675	98.8263	32.4463	6.9857	-8.9789	12.9485
7307	99.8826	146.0617	1.1531	70.1148	28.8654
11630	99.7653	455.1767	3.0582	281.2968	61.7315
4751	99.7653	227.2887	0.6892	114.1999	45.0664
11767	99.7066	154.7667	8.7236	35.3085	32.3148

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TABLE 5G: CARBAMAZEPINE					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18002	99.7066	374.4650	25.4273	1301.7414	484.1351
21465	99.7066	445.4160	30.5791	1930.2488	819.0464
24251	99.5892	132.1863	0.9781	69.3626	88.3190
18681	99.5305	146.4137	17.5015	469.0938	138.2230
15122	99.5305	195.3107	0.8623	266.4687	61.3122
6874	99.4718	234.0087	13.0313	54.6951	40.3200
24223	99.4718	585.9413	7.0652	275.0404	125.3416
24130	99.4718	177.5050	7.1452	66.5799	34.3252
18491	99.4131	405.2177	24.9928	751.4099	125.7073
6890	99.4131	182.9777	9.0777	79.3668	30.4514
2025	99.4131	136.4650	3.0285	61.8417	37.8943
18910	99.4131	-84.9320	28.8661	189.4222	118.4656
4618	99.4131	142.9597	1.4231	81.4530	34.9566
17096	99.4131	421.0987	0.5803	523.5151	122.9930
6313	99.3545	161.2440	7.5580	31.6342	47.8259
13141	99.3545	102.7810	0.8108	58.9323	19.1751
3860	99.3545	144.2537	1.1453	311.6792	134.2491
8580	99.3545	113.6997	0.2805	95.9177	34.5760
5309	99.2958	223.5827	0.8326	344.2408	87.1220
6699	99.2958	294.8583	4.9811	46.3019	83.8043
6370	99.2958	209.9073	14.3105	20.3682	43.8699
13753	99.2371	39.8550	0.5715	13.6806	14.1475
4951	99.2371	183.0727	23.8127	544.7317	193.5944
23756	99.2371	227.3547	12.1648	652.0333	363.0901
9289	99.1784	175.8997	17.8885	61.9873	35.6449
20633	99.1784	62.7547	2.4832	16.5823	17.3640
13958	99.1784	26.8990	2.9256	-7.4870	16.4666
18138	99.1784	636.0283	22.6070	1864.4630	742.3702
12836	99.1784	177.7727	8.8776	57.2892	35.9146
16779	99.1784	115.0767	1.4765	60.9063	40.8888
22637	99.1784	55.1107	4.0960	11.8810	18.5527
20140	99.1197	47.4840	0.6659	16.4757	21.2829
17646	99.1197	166.2943	4.7569	102.5739	23.5564
11192	99.1197	25.2547	1.3049	1.2014	15.4768
8330	99.1197	108.2920	5.4333	42.2278	22.7628
21466	99.1197	835.2790	129.6464	3183.2413	1232.0680
16533	99.1197	60.6637	25.3108	384.7378	144.8104
23535	99.0610	248.9700	10.9006	91.4745	50.4478
18212	99.0610	112.1510	24.8844	-31.1676	29.8890
18839	99.0610	11.3043	6.6877	103.1519	45.6866
12602	99.0610	112.6727	3.7478	245.4803	66.5770
9746	99.0610	194.9770	1.1266	124.6755	66.1367
21442	99.0610	14.9597	0.2368	47.6371	28.6294
2571	99.0610	150.3277	24.8886	-42.2173	67.7958

TABLE 5H: Carcinogen Gentoxic				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17684	83.2437	24.1679	10.8529	63.0350	32.9578
20466	78.7037	15.4799	18.8561	57.3331	40.3580
18867	78.7037	152.5066	69.4881	312.6097	157.4767
17739	78.3154	13.0738	5.8696	44.0949	41.6782
24327	77.8375	1488.5860	350.4001	1017.6059	335.8338
18606	77.4791	2824.6361	611.6411	2168.1253	568.0217
1694	77.0012	3018.2006	535.2345	2466.3986	617.7198
573	76.4934	28.2431	18.7839	81.0548	59.0454
13283	76.4337	82.5342	33.3722	146.3369	71.9209
24626	76.3441	2376.6147	273.0064	2111.8089	359.3834
18895	76.3142	244.5522	49.7790	204.1394	48.1019
25058	76.0454	68.6969	10.7667	84.6507	46.2064
815	75.5078	3428.6683	516.3530	2934.2645	654.7969
15239	75.4480	2072.2969	424.1459	1641.8186	416.6065
18375	75.0299	287.3852	56.9144	225.8582	75.6946
16929	74.9104	2312.8700	433.5204	1972.9877	396.4671
16180	74.8208	57.2374	21.6973	95.5882	43.1725
14876	74.7909	35.2148	16.3889	14.1246	22.1227
8597	74.7611	25.1917	21.4400	43.6334	29.5628
4292	74.7013	43.2759	5.8170	54.3900	25.6016
626	74.6714	155.2046	66.5618	88.2512	74.8286
18305	74.5818	4090.2974	756.0369	3302.5231	876.5555
11865	74.4624	24.5675	12.9383	50.7579	29.0331
15310	73.9845	34.7029	8.8888	26.9325	13.2867
16847	73.9546	1865.2128	330.3253	1534.1079	327.1473
17562	73.9546	552.2980	151.3505	653.8965	387.5632
25204	73.9247	60.4349	28.6014	107.2352	56.4270
16331	73.8650	327.0269	85.2858	429.1192	123.9959
22903	73.8650	210.4887	25.5060	206.8894	54.1631
18611	73.8650	3492.6204	625.1874	2793.9336	802.3376
15652	73.7157	3660.3111	564.5969	3089.4855	568.9847
20872	73.6858	2746.6096	482.6771	2267.9399	612.0351
16708	73.5066	200.5813	86.2312	261.7915	84.1375
17997	73.3871	33.7788	31.9197	50.0072	23.8590
4426	73.3274	377.7188	62.9380	275.3301	76.0192
5545	73.3274	332.4978	160.6275	546.7870	273.7831
17567	72.9988	3275.2471	635.6829	2640.8623	675.9263
16322	72.9689	42.5881	10.3937	64.8080	34.4905
16164	72.9689	1499.2766	196.2598	1279.1471	248.1887
4574	72.9391	222.2413	131.1893	328.5879	127.8903
24577	72.9391	2644.0129	450.9776	2164.7557	529.5811
2667	72.8793	100.5019	58.9314	181.7163	85.6482
4439	72.8495	186.1599	48.4753	244.3336	74.2609
25705	72.8495	2181.2321	207.8482	1873.7307	390.4862
10819	72.7897	3325.8141	666.3316	2785.1932	734.6304
32	72.7897	23.7469	30.6246	51.1800	27.0449
19020	72.7300	69.2854	18.3031	58.0931	18.9467
9620	72.7300	1607.7848	205.3970	1351.3844	295.0936
1973	72.6404	200.5189	41.8816	265.2599	76.0872
844	72.5806	102.0208	29.4549	143.1441	38.6051
1995	72.5508	124.2003	68.8714	282.0660	213.3999
317	72.5209	19.3689	11.9793	37.1872	21.0550



TABLE 5H: Carcinogen Genotoxic				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25777	72.4313	2568.1025	840.8705	1733.0832	547.8341
4647	72.3118	173.6651	83.7718	214.1083	63.8184
6128	72.2820	28.6517	10.8568	41.4035	15.5873
537	72.2820	578.2862	177.7466	927.1787	355.2321
5667	72.2521	2202.9148	313.9591	1842.6349	349.7418
21950	72.2222	210.2395	61.4833	258.8539	70.7675
25540	72.1924	85.4082	18.6506	65.4353	27.1327
15387	72.1625	1238.3254	205.3824	1085.5852	286.3376
3131	72.1027	61.6861	17.0982	102.7094	52.8770
16953	72.0729	1786.6267	208.7103	1518.2197	331.2064
1347	71.9534	2914.3907	358.4854	2513.0395	531.1009
9090	71.9534	71.7453	42.5372	31.4616	54.8234
8137	71.8937	207.2667	83.6075	152.8135	58.7335
17729	71.8638	2510.5232	415.6794	2183.1620	428.4607
19727	71.7742	3004.0926	512.1218	2630.9137	587.5475
17100	71.7443	2604.3299	546.6047	2104.2476	452.0819
19244	71.7443	3689.5559	647.5039	3011.2287	757.8297
1611	71.7443	87.6601	13.9565	69.8552	33.7531
3027	71.7145	2784.9022	517.9926	2336.2082	596.9884
9745	71.7145	72.4216	14.5577	59.7082	19.1666
17808	71.7145	1779.8404	266.5749	1508.1624	345.8634
22282	71.6846	189.2981	49.6545	144.0702	45.3583
14959	71.6547	1950.3103	243.7238	1625.4320	410.8811
10109	71.5651	3600.9485	608.1086	3020.9218	696.0940
16930	71.5352	285.6808	173.5339	618.6573	335.9065
20807	71.5054	2380.6327	406.5916	1997.2291	472.1739
10267	71.4755	6198.5065	1513.2710	4837.7717	1384.2252
20462	71.4456	2074.7572	351.5390	1694.9889	408.2619
709	71.4158	15.7658	4.1818	21.2559	11.8469
4592	71.4158	521.0269	92.2932	417.6593	130.2386
17963	71.3560	37.5585	10.8328	51.4726	22.5152
15136	71.1470	2350.9841	523.1582	1864.5272	607.3231
15468	71.1470	2277.0235	366.3536	1913.7428	434.0124
25576	71.1171	38.0117	17.4168	30.2739	20.3120
765	70.9976	11.7574	8.1788	22.2856	14.8998
7914	70.9677	45.2761	21.0352	75.6069	35.3139
11994	70.9379	101.4992	22.2917	82.2689	21.4963
18541	70.9379	2808.4522	360.2590	2495.8491	560.3452
619	70.8781	48.3771	33.1710	99.1181	66.2423
14924	70.8781	123.4532	24.5390	100.2456	40.6245
20082	70.8483	679.6899	257.7474	450.5680	161.7391
3015	70.8483	4501.4371	1119.9668	3379.2707	1048.8013
25761	70.8483	27.6317	12.7503	15.9796	13.5651
1530	70.8483	23.9997	8.3781	16.9459	16.0533
25088	70.8483	31.1699	9.9798	29.7340	26.6803
17764	70.8184	3252.5971	850.8214	2512.8403	634.2208
1153	70.8184	120.0533	47.7266	185.1854	103.2523
1529	70.8184	76.6221	40.2183	114.6682	46.8373
13718	78.6440	26.5046	18.9754	45.8103	21.6080
2845	77.8076	1386.7830	117.3309	1228.6847	199.8863
5258	77.2103	131.6422	46.9568	192.2809	56.1012
19544	77.1505	1800.3195	359.4844	1434.1918	373.0310

TABLE 5H: Carcinogen Gentoxic				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6479	76.9713	225.1826	88.9313	425.7913	209.4747
17513	76.8519	46.4941	20.4082	79.1162	33.8067
19092	76.6726	7218.1836	1623.4245	5075.2803	1385.8701
4900	76.6726	311.1479	58.2227	411.2640	102.7585
24411	76.6129	568.3201	97.8176	440.6609	123.8636
4849	76.5830	1711.5001	238.8230	1409.4051	315.9705
3730	76.4934	339.2046	107.5556	605.1650	311.5296
12825	76.2545	338.6201	40.2940	297.6594	100.5426
18205	76.0454	938.3951	144.5144	759.4102	211.2884
13598	75.9259	469.1300	132.2803	308.8207	98.2254
3417	75.8662	1457.0043	228.6052	1141.7598	327.8584
14181	75.8065	28.7701	21.8647	48.8043	22.4436
21982	75.6870	33.1250	36.7892	81.3948	51.4937
8988	75.6571	98.9101	50.3124	61.7987	41.2460
23097	75.5974	598.8099	126.5915	475.3528	106.0657
23521	75.5974	71.5079	47.8226	279.0167	251.5306
7055	75.5078	520.4733	93.2605	406.2953	97.5641
14984	75.4182	21.6388	46.6039	-25.6164	50.8683
5013	75.3584	343.1448	128.1612	172.7631	134.4316
22765	75.0000	32.3662	37.1378	97.1570	77.8761
4585	74.8507	1573.0931	152.4961	1345.7750	326.2358
8518	74.8208	38.2193	13.7657	23.7024	19.1698
8477	74.7312	656.7041	145.3255	515.5827	143.5322
4233	74.7312	439.4909	171.0227	391.5380	460.1507
6841	74.7013	185.7423	59.4116	278.1277	110.6067
17089	74.6714	7685.5452	2569.7938	5135.4585	1629.4001
23712	74.4325	191.3732	30.3205	247.4805	65.0312
6335	74.3728	136.5666	27.6236	101.1669	33.7386
19082	74.3429	171.3669	22.6879	197.1318	40.4757
23224	74.3130	399.4551	79.0127	319.2884	107.3610
5833	74.2533	38.1724	21.8087	71.4256	34.5511
20052	74.2234	103.4803	12.7614	120.5743	41.9604
21740	74.2234	308.8395	199.0278	439.7696	163.7107
14241	74.1637	106.1579	18.7964	132.1357	61.4963
8672	74.1338	96.5479	29.5129	137.7824	46.5654
16752	74.1039	18.0234	22.2005	75.5484	85.2097
7134	74.0143	33.7884	13.5400	50.7510	19.6305
8856	73.9546	102.5003	26.4112	70.1919	24.2732
19555	73.9247	171.3837	63.4120	387.3110	247.6251
9475	73.7157	96.7250	74.6554	176.1554	86.3752
21879	73.6858	160.5342	29.0914	128.3339	38.3965
23824	73.6858	323.7851	31.7262	283.4817	90.0957
21023	73.6858	84.6597	35.4292	112.2190	38.5431
14313	73.6559	-2.3209	37.0198	30.4834	43.9658
24721	73.5962	26.0903	8.3129	39.6233	16.6559
9277	73.5364	151.3106	18.4538	134.8811	42.4967
9150	73.5364	1309.8984	152.4534	1125.9564	262.8034
6291	73.4170	173.6273	74.2361	259.9613	96.0243
6965	73.4170	51.3818	12.6941	68.6449	25.8273
14223	73.3871	1119.3547	111.9032	1124.2595	233.3335
7258	73.3871	211.9798	27.0084	237.1541	78.4932
16656	73.2676	840.1154	178.6984	709.0587	151.4252

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TABLE 5H: Carcinogen Gentoxic			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10665	73.2676	228.5429	62.7885	155.9417	65.9592
4944	73.2676	889.2758	140.7190	751.6468	288.6840
22587	73.2378	104.6780	18.5016	135.6731	33.9942
10319	73.1183	56.5545	33.2719	97.6325	35.0433
22014	73.0884	38.5019	17.2074	59.5901	32.3597
23829	73.0884	55.7927	13.6425	72.5715	38.5074
3519	73.0884	293.0677	106.9134	493.0188	269.0770
11630	73.0585	321.4721	47.5804	281.0560	62.5046

TABLE 5I: Carcinogen NonGenotoxic				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
426	77.3124	1565.2891	235.3417	2629.7619	1314.8392
7914	75.6721	45.3587	15.0070	76.1196	35.4010
1611	75.0816	99.5156	20.8133	69.0913	33.4436
10744	74.8215	16.7976	10.2152	53.8582	48.6612
23524	74.4912	557.3039	122.2340	389.9234	194.0749
14970	74.3089	34.4168	12.1177	60.0015	25.5899
21014	74.3013	483.3280	183.4214	840.5592	439.7860
923	74.0735	297.9388	111.4610	189.6752	109.1328
23709	73.7451	39.4808	10.8866	62.5106	28.0650
16809	73.6217	91.9632	31.3442	62.4932	25.3156
19222	73.5704	1033.9584	166.1523	858.0964	180.7030
2830	73.1375	138.9585	25.3332	177.3637	42.3178
15313	72.9724	424.7222	113.5965	296.7680	169.7572
23522	72.9458	327.7718	64.5295	249.2933	78.5694
16730	72.6857	310.8457	74.9618	222.8116	103.7592
11755	72.4522	514.2567	134.4946	690.3041	306.3471
18396	72.4237	619.0002	250.2477	387.6439	194.6268
2098	72.3041	268.4192	33.8056	230.1320	51.3695
427	72.2262	974.6124	268.0116	1738.9419	929.3503
21012	72.0876	675.4791	281.2246	1239.1398	631.1980
46	71.9927	16.0595	5.8110	47.5494	66.6594
12118	71.9927	87.2585	17.8647	122.5675	72.5711
10743	71.9661	31.8768	12.1268	71.7377	54.7546
15281	71.7820	717.1088	178.3643	539.7166	172.7950
15312	71.7744	295.6093	70.5494	217.1474	127.1500
17316	71.4156	87.1439	64.1839	33.4513	23.6689
135	71.2200	15.6452	6.3474	24.2274	18.9870
19696	71.2105	18.8612	5.0150	22.1785	10.5418
20735	71.0966	1313.5520	294.6071	1004.4481	345.4266
18715	71.0871	421.2594	106.1449	328.4941	92.4641
11852	71.0700	106.5358	62.4719	148.6009	54.2793
23417	70.9846	577.6227	93.3104	484.6179	126.9563
1885	70.9333	40.2338	7.1334	48.5536	17.6758
12013	70.8897	98.0127	15.0784	86.4707	23.0552
4091	70.8897	1115.9206	104.0044	1147.6314	211.0428
2629	70.8346	346.2609	172.0784	194.4599	114.9334
1306	70.6713	189.6084	53.2566	150.6405	58.4723
12041	70.6201	327.3121	62.9137	286.7904	72.9648
15647	70.5764	69.8606	23.3710	47.3942	27.1177
16257	70.5593	151.0016	51.9217	214.8488	82.9137
1288	70.4815	28.0820	19.1030	43.0552	21.8314
25531	70.4720	29.1810	9.3232	21.8074	10.7119
6626	70.2821	38.9126	13.3470	62.1339	31.3297
4407	70.2612	311.0388	170.9739	170.3074	85.9478
20056	70.1872	36.6297	9.0819	88.6816	101.8032
21670	70.1853	154.8137	40.1090	118.8195	44.6328
17115	70.1606	12.3097	8.6004	24.9802	17.4501
15011	70.1151	230.3376	61.4151	168.4621	59.6748
1678	70.0391	16.8811	19.2324	40.8021	42.5325
17130	70.0030	251.7097	50.9038	199.1394	57.7162
1949	69.9594	109.0666	36.2044	77.6339	37.8864
14956	69.9328	259.4496	86.4724	190.1046	86.7438

TABLE 5I: Carcinogen NonGenotoxic				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17258	69.9176	74.0971	17.4857	94.9190	30.4814
21663	69.9081	537.1242	84.3156	437.8069	126.6048
16381	69.8568	351.0631	75.9432	433.2856	121.1154
11494	69.7923	410.4557	265.8113	161.2046	130.0820
21375	69.7600	55.5268	14.6314	43.3020	16.3546
24196	69.6708	42.1588	33.1330	17.7577	16.6264
17225	69.6556	540.9403	116.0462	412.7988	125.5183
8768	69.5436	73.8560	16.5729	59.4372	20.8646
17541	69.5265	2067.8646	732.4052	2977.7681	1073.2410
21989	69.4904	140.0504	30.9096	110.3857	34.3179
21239	69.4733	542.1887	135.2228	418.6204	145.6524
11959	69.4316	49.1713	22.3025	70.0875	29.5601
18561	69.3689	91.3253	25.7999	70.4600	25.0625
20836	69.3442	48.3925	25.8640	28.5369	28.9954
19486	69.3272	44.6398	6.5265	42.9134	13.7793
18108	69.3082	868.1026	188.2671	703.6517	178.2542
17657	69.2835	42.2339	18.1527	24.5145	26.2489
1501	69.2835	1801.5911	413.7369	2226.3743	567.1930
14346	69.2664	501.0062	154.6454	735.1026	322.2353
110	69.2493	154.5173	46.3229	235.4297	132.1636
17891	69.2284	74.6543	30.3483	53.3207	18.7673
15103	69.1886	167.9559	16.3036	186.1990	31.9904
968	69.1715	17.9437	10.8034	38.3064	39.6289
11115	69.1278	434.6300	207.8529	734.6330	428.1666
2628	69.0898	357.3981	201.2494	179.6773	129.8103
8599	69.0557	56.9760	22.8753	40.0873	18.2564
23678	69.0462	180.8171	83.0312	118.1017	49.2380
591	69.0291	50.7716	21.3695	36.8278	16.7314
17635	69.0234	173.0292	70.3075	278.4918	132.8801
24326	68.9702	1001.3873	224.4017	821.4422	255.3810
2413	68.9607	839.7426	177.4180	763.1567	149.3177
21415	68.8677	323.1220	71.4837	290.0135	115.6219
23523	68.8392	742.3617	175.5474	571.9101	175.5542
108	68.8240	1193.3846	294.2555	1584.3725	619.7328
20753	68.8127	507.1867	142.4630	357.8658	114.3601
13381	68.7785	67.0461	15.8022	50.0889	15.0261
1504	68.7519	28.6525	17.0700	16.8490	15.4093
17532	68.7367	139.4473	40.2685	197.8014	73.6459
25814	68.6854	15.9174	11.3162	24.6039	24.7085
19086	68.6836	543.5658	123.4357	396.8220	160.8217
1813	68.6475	121.7731	82.3294	49.8011	62.6542
21373	68.5962	92.6968	57.5675	110.1719	48.1928
8417	68.5279	2290.0555	657.4674	2916.3223	724.4898
17393	68.5184	561.2507	123.2376	479.4849	119.6203
12014	68.5108	340.2261	36.0200	294.1228	66.6509
24377	68.4766	131.2880	28.7078	163.4738	44.3396
14295	68.4652	47.6375	21.0871	33.3200	16.4353
19091	68.4595	22.0954	12.3780	9.8743	21.0604
23541	80.7488	389.0134	78.5263	276.0834	188.1152
2781	78.1877	243.6250	81.6965	135.9895	92.6394
2825	77.3903	208.6985	30.0997	166.0270	51.3248
12965	76.9213	379.1866	101.2874	262.2117	148.2137

TABLE 5I: Carcinogen NonGenotoxic				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22833	76.6081	2234.7520	408.5146	1761.0039	412.7920
6251	76.1486	254.7936	50.0228	199.0332	64.9497
14693	76.1315	193.4697	33.5226	145.3618	51.6572
9615	76.0689	207.9436	90.5954	99.0942	62.9219
2655	75.6455	1253.3919	318.0891	935.8570	472.4684
6037	75.4291	48.4181	11.2132	64.3156	24.9297
3246	75.4006	168.4394	84.1004	101.3443	53.8931
11411	75.2715	510.0323	83.6789	410.6979	88.4719
24373	75.2373	275.0545	62.0909	205.4112	74.0727
21125	74.9601	2.6259	43.7214	51.9581	53.1404
8053	74.9317	400.1971	183.5222	204.9923	109.7847
11729	74.8026	279.5722	57.1007	224.7545	51.9525
23538	74.7665	684.1492	406.6216	346.5193	189.8017
6796	74.6469	628.7568	128.0689	475.1618	150.6853
6347	74.5861	264.1187	48.6459	211.1626	55.0363
22249	74.5614	16.2916	8.0521	29.9080	25.7983
12344	74.2918	17.0302	33.1653	66.3052	55.5421
5979	74.2899	331.7130	95.6766	228.3325	78.9827
23159	74.1950	740.6166	269.2627	560.8609	277.9340
15238	74.1703	159.8950	35.8210	220.0789	72.7921
3791	73.9710	95.2971	34.1698	147.8200	59.8737
11574	73.9539	25.0970	4.9497	33.6909	16.9735
10378	73.8324	85.3606	41.8637	234.7308	230.8210
2702	73.7773	1147.5617	361.3406	808.7231	288.6290
18944	73.5609	505.7535	135.9740	382.4302	119.7749
12698	73.4641	305.4891	282.0615	87.5844	147.9020
21157	73.3103	899.4863	129.0193	749.9085	174.7521
10960	73.3008	851.7557	124.3815	709.9585	131.9220
15183	73.2420	247.6782	58.2776	327.0655	136.6331
17793	73.1888	168.3601	43.3853	119.0541	54.8453
22751	73.1793	551.2006	134.0933	407.2220	127.2271
3256	73.0939	1914.2192	320.8595	1834.9720	630.4221
6188	73.0502	116.3074	54.9689	186.3460	74.1599
13916	73.0160	17.1069	5.3972	26.0873	13.7376
15080	72.9116	242.1569	61.0897	321.1083	89.1023
16128	72.9021	333.4375	62.2365	285.6093	64.8268
5037	72.8850	264.5917	45.3503	215.8808	56.1978
5152	72.8679	39.8253	15.1765	69.5128	33.1805
2897	72.8414	155.2392	36.5856	119.0337	40.2604
3143	72.8338	184.8524	34.7533	232.1910	58.4461
15180	72.6686	433.3097	90.3367	582.6600	166.4453
5169	72.6591	1325.6211	209.9997	1043.5554	272.3334
22753	72.6515	107.5712	61.9766	215.4830	127.3789
23515	72.5623	576.4423	139.6959	476.0867	98.0923
11714	72.5281	177.6447	171.6322	249.0504	124.5480
17771	72.4427	2159.2067	386.4512	2054.2468	815.8330
3290	72.4237	440.3324	110.5847	311.8567	109.3535
23526	72.3724	73.6378	34.0150	40.5673	38.0821
10934	72.3477	297.6086	34.8981	261.3496	73.2444
6765	72.3212	69.2235	41.3525	114.7086	50.8155
3413	72.3193	337.6277	124.2069	214.5591	93.6161
18854	72.3136	40.9238	15.0169	66.8699	36.6686

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TABLE 5I: Carcinogen NonGenotoxic				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23355	72.3041	563.4203	95.2185	429.6735	170.9487
11901	72.1997	595.5279	153.4657	470.0125	172.0909
7503	72.1807	63.5349	47.8919	20.4677	38.0240
3088	72.1123	14.0014	16.8703	30.9985	19.8400
19075	72.0155	521.0717	204.6176	333.5380	166.7353
22517	72.0155	123.5176	87.2933	45.0664	72.8326
7161	71.9737	201.8178	37.7424	159.3389	49.1048
2596	71.9490	39.3573	23.1379	87.1516	70.7501
8880	71.9396	15.3790	4.9144	22.9069	12.4954
15282	71.9301	392.7707	99.0346	300.6089	104.6035
8048	71.9206	115.1714	39.4363	72.4331	35.2047
7451	71.9206	1067.4514	213.0032	828.9363	232.2553
11502	71.8864	677.5299	169.5668	894.4400	195.7554
26132	71.6965	5.9417	11.1080	20.5897	17.8668
16489	71.6529	401.5719	50.6946	341.4572	76.9729
10308	71.5997	1427.3718	287.7471	1169.4545	278.6840
8759	71.5466	227.1212	144.8096	92.0506	143.0580
7887	71.5143	473.0938	70.0664	393.0943	115.1516
8850	71.4782	123.8255	40.3949	96.8260	43.0510

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TABLE 5J: CCL4					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16018	99.0610	201.2833	3.2755	102.7067	48.1870
11735	98.8850	43.2633	0.2743	33.7812	14.2237
14881	98.3568	40.7800	10.0106	438.1132	277.3671
17281	98.0634	61.4100	2.5270	156.2975	82.8662
12014	97.9460	341.6300	1.4030	295.6871	66.3907
15364	97.8873	136.5567	0.6385	145.8706	60.7470
1311	97.8286	12.6833	0.5886	28.4515	15.1076
18361	97.5352	1312.5200	12.5141	1265.7645	455.9408
5616	97.3005	1222.2200	15.0065	1063.0951	466.3967
8097	97.2418	1410.9967	20.4926	1038.7649	277.9270
17995	97.1831	52.8600	10.4473	546.6622	370.3403
18606	97.0070	2692.6567	31.9905	2180.1483	576.5711
16304	96.9484	86.7467	11.0373	316.6155	161.7488
16416	96.9484	618.9633	137.7148	276.7073	106.3692
16661	96.8897	147.5800	0.9100	158.6620	39.5085
18318	96.7136	136.3467	10.2234	80.4257	185.6093
15445	96.5962	111.2600	2.3586	165.2464	59.5137
10878	96.5962	2657.9100	105.8000	1853.7359	417.0332
20854	96.3615	27.3033	1.2023	77.5018	56.8434
15123	96.3615	13.8667	2.3394	179.1745	253.0522
1392	96.3615	49.5033	0.9800	68.9234	47.7370
9134	96.3028	732.3100	5.5687	692.9557	154.8544
1562	96.1854	121.7900	20.4557	321.6082	128.5988
16469	96.1268	1166.7267	118.7491	697.5225	190.3211
4723	96.1268	752.0700	33.6542	517.2429	169.6074
2853	96.0094	442.7700	38.5360	243.6627	88.4571
20705	95.9507	1.3500	5.7653	125.6746	150.3179
15087	95.9507	270.2267	16.7431	185.4703	49.5642
18396	95.9507	442.7600	10.9135	396.1392	201.9888
16037	95.7746	416.8233	5.0126	352.9917	77.2087
16215	95.7160	1566.7867	232.4363	935.3804	229.7645
4412	95.5986	330.1367	3.6182	302.4723	74.5075
20914	95.4225	149.3200	5.1012	195.6573	186.6204
5351	95.3638	2048.8000	177.6306	1381.7535	292.8524
16854	95.3638	268.7500	4.6190	219.7943	48.3998
488	95.3638	1725.1300	98.1951	1425.9514	1090.9905
21585	95.3052	405.3600	50.0407	229.6060	73.5575
4011	95.2465	58.0433	8.8137	347.4221	238.8098
21372	95.2465	45.5033	1.3372	35.8876	26.0368
19422	95.2465	63.3333	1.4851	57.7290	27.6839
25567	95.2465	523.3167	12.5871	429.2630	183.4545
23180	95.1878	1854.1500	105.6388	1371.5402	277.9388
3717	95.1878	624.2200	22.1887	427.9026	142.2693
21586	95.1291	279.3800	44.3825	135.9909	58.5758
18060	95.0704	231.0433	8.2019	174.0539	38.5995
16047	95.0117	57.3567	2.4201	91.3889	36.3882
9124	95.0117	835.0733	121.4578	516.5943	132.2459
9254	95.0117	117.9933	1.8170	104.0935	30.3058
1797	94.8944	68.5400	17.4960	587.9907	482.7306
6980	94.8944	73.0067	2.4278	50.1029	20.8845
15495	94.8357	84.2367	0.9551	81.4091	32.3177
6598	94.7770	76.1467	4.5097	123.1365	74.1942



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TABLE 5J: CCL4					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14346	94.7770	389.9067	31.0330	727.5258	320.5451
14184	94.7183	357.1433	42.8011	150.7908	89.1831
1173	94.6596	17.6767	5.0776	203.0221	188.0714
23344	94.6596	574.9167	33.5420	383.9570	112.1732
16300	94.6009	90.9067	1.7015	107.2408	37.6187
17676	94.5423	189.7967	19.5421	907.9402	765.3018
18730	94.5423	511.2033	41.4935	1239.3735	594.9388
14185	94.3662	706.9467	141.3543	274.3518	176.8237
19161	94.3662	3732.8467	179.6023	2565.6287	667.4871
18005	94.3662	92.6333	3.1436	112.1576	49.0545
18895	94.2488	217.0533	3.3701	204.9477	48.5364
5257	94.2488	34.2300	1.0159	35.5388	14.7131
11849	94.1901	1927.0867	44.2798	1592.1114	343.2244
17393	94.1315	565.2733	10.4548	482.2538	120.7980
25087	94.0728	5.5400	0.4854	44.1112	66.2711
4541	94.0728	363.5300	10.4079	273.9518	89.0017
25705	93.9554	2715.6400	317.6756	1877.2627	387.1775
25550	93.8967	86.0667	4.2001	125.7042	46.6156
17896	93.7793	105.2767	10.5987	65.8496	20.2247
10340	93.7793	85.8467	3.0201	65.4407	26.8182
20879	93.6620	3.6833	3.0104	56.7792	48.8189
20299	93.5446	32.0867	5.9955	110.2824	66.9010
23274	93.5446	1287.8800	141.6039	947.8714	180.9517
8266	93.5446	1097.3767	89.2920	2084.5792	955.6196
19392	93.4859	2407.7400	75.7722	1964.0608	337.3118
19053	93.3685	68.5367	12.1177	32.3303	61.8496
20746	93.3685	836.2733	68.3471	564.4849	308.6037
22321	93.2512	1700.6000	358.1856	830.8087	433.6174
15313	93.2512	369.4533	17.4237	301.3179	169.9444
15325	93.2512	43.3433	5.9547	102.0727	46.1943
3908	93.1925	679.3533	61.1075	480.0417	98.1093
1000	93.1925	21.9933	1.1826	18.3299	13.1438
20000	93.1338	86.3767	4.1605	61.0038	28.7883
23130	93.0751	335.9833	10.2306	402.4429	142.4560
19212	93.0164	10.5633	1.3499	30.4209	20.4002
15174	93.0164	53.0800	3.0867	52.0072	47.9677
2854	92.9577	1102.1500	156.9971	709.4020	204.7611
1588	92.9577	198.2500	20.1815	451.1864	265.0350
31	92.9577	90.9667	63.7948	107.0184	32.5531
17426	92.8991	546.5067	26.5020	419.9411	85.7936
18618	92.8991	1715.2567	89.7794	2257.7515	364.5200
7459	92.8991	890.6500	78.9262	1497.1910	429.2561
12041	92.7817	373.4067	15.7008	288.0074	72.9373
22889	92.7817	40.9867	1.4110	30.1428	16.7596
22927	92.7230	91.9100	25.4006	49.9802	20.5196
11980	92.7230	15.2167	0.8240	23.8832	13.8382
225	92.7230	44.3033	47.0457	54.0625	28.6723
3844	92.6643	100.3833	86.1885	75.6906	39.3774
24745	99.5305	1347.4433	2.6505	1473.5288	269.9788
11322	99.5305	613.6367	0.8075	534.4156	127.2307
7365	99.0610	143.4167	0.1877	159.3237	46.2780
23449	98.9437	889.2867	5.9680	660.4035	488.2434

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TABLE 5J: CCL4		Attorney Docket No. 44921-5113WO			
Timepoint(s): 24 hrs		Document No. 1926271.2			
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19379	98.7676	1377.2167	62.0723	805.5494	182.5837
18833	98.7089	59.6000	2.4358	143.2568	51.1938
23451	98.7089	424.1633	1.6376	438.7323	112.0533
19765	98.5915	441.5933	2.6732	407.6325	155.3143
12114	98.5915	192.1500	3.5246	313.3429	87.9000
11227	98.4742	522.7733	33.7540	307.7420	76.4337
2093	98.4155	422.0267	7.8550	511.7709	414.1157
17790	98.2981	1204.9133	8.0732	879.1097	269.8916
11486	98.2394	27.0900	0.3306	19.9288	15.3515
15946	98.2394	201.1067	7.8272	121.7659	39.4038
3729	98.2394	86.7233	1.8955	127.5742	28.4437
22857	98.1221	207.5333	2.9159	135.8711	84.8037
6165	98.0634	173.4567	3.8588	321.5716	132.9262
10315	98.0047	309.5500	7.2554	189.9283	61.4921
14098	97.9460	76.1800	1.1871	140.7065	62.8484
19249	97.9460	714.1500	10.4534	486.0734	243.1020
17168	97.6526	683.0933	10.2322	485.5208	146.7510
16625	97.6526	305.0100	2.4534	288.0411	73.0714
5215	97.6526	24.4467	2.7857	61.3010	23.1241
2625	97.5939	97.5900	0.6031	88.4887	19.6875
4724	97.5939	763.7433	11.2496	566.4501	215.1385
13052	97.5352	300.6300	2.3010	360.1793	86.7998
13990	97.5352	479.9300	3.8651	407.4319	81.3524
18367	97.5352	373.4800	4.6881	296.1079	55.0063
17024	97.4765	58.3167	1.7974	32.6953	22.3561
19535	97.4765	688.5867	86.7748	202.0047	182.1642
10100	97.4765	67.8533	1.6160	40.1785	22.7303
20645	97.4178	36.8133	0.3753	33.3767	14.7035
12122	97.4178	21.9667	1.2256	7.1344	24.3419
13035	97.3005	44.0200	0.5935	30.4112	14.4919
11615	97.3005	895.6167	5.2616	806.1136	184.4951
26151	97.2418	367.5367	44.5682	170.5539	71.9917
11301	97.1244	40.7233	1.6065	53.9911	48.2487
10780	97.1244	16.7733	0.3044	20.8276	14.8042
22257	97.0070	29.1967	6.3342	84.8407	27.5134
16736	96.9484	89.2467	1.4561	70.7825	31.5498
18697	96.9484	178.3400	1.5380	200.5583	78.4862
22680	96.9484	136.4433	2.3739	102.9215	47.0356
3291	96.8897	21.7600	0.6696	11.1940	20.2863
4607	96.8897	10.3067	3.2426	49.3947	22.3200
2993	96.7723	1297.6567	21.8138	970.4896	219.1361
3309	96.7136	317.4267	3.5915	294.4337	89.3443
13977	96.5962	320.0733	6.1183	477.8334	154.8851
14284	96.5376	136.5033	1.5502	133.2043	43.8789
16345	96.5376	1600.2500	97.8873	1002.7436	276.8050
4203	96.5376	63.2133	7.1125	206.5786	109.4530
14286	96.4789	52.5600	0.8903	48.4113	24.3332
4145	96.4789	2583.7633	23.8899	2175.5863	578.9178
14608	96.4789	244.5067	3.5509	181.6088	76.4391
6723	96.4202	260.9567	11.9510	154.9894	58.5559
5833	96.4202	91.6800	2.5018	70.6517	34.6925
23800	96.4202	25.0067	5.5003	87.2830	40.7663

TABLE 5J: CCL4			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
8275	96.3615	67.0367	0.9793	77.4654	40.9891
5495	96.3615	27.4500	2.6577	77.4369	40.8209
19563	96.3615	78.4300	2.0436	52.5950	28.7734
10459	96.3028	87.3533	1.5653	72.2571	36.9208
21296	96.3028	105.9167	2.0321	91.8855	40.1033
3256	96.2441	1800.1467	29.0896	1838.0711	622.7833
5878	96.2441	1113.9500	23.3055	852.8406	186.1921
13606	96.1854	84.0200	1.5879	100.4287	37.0208
13310	96.1854	42.8067	2.2144	35.2296	51.9579
5887	96.1854	22.1800	2.3807	5.1228	57.3070
16003	96.1854	84.8300	2.7477	51.1626	35.6561
6673	96.1854	564.6033	8.6446	641.0482	283.6174
8025	96.1854	1245.0700	96.8954	704.2772	245.4521
7831	96.1854	595.5300	90.6852	376.0061	73.8722
17890	96.1268	33.8733	0.5442	43.7176	27.5395
6329	96.1268	2124.9167	48.2204	2294.6689	1068.6253
3660	96.1268	133.2633	3.6048	117.1526	79.8816
16311	96.0681	447.2167	12.3221	711.4749	323.8264
15907	96.0681	90.4233	4.9883	159.1253	50.7112

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TABLE 5K: CHLORPROMAZINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6, 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25845	96.8235	61.7126	2.3799	43.5652	24.6823
25278	95.4118	56.5892	1.8342	41.0622	16.9702
20745	95.1176	784.9972	133.6882	411.6433	221.7418
1969	94.1176	80.0502	9.8163	52.1590	48.5537
15763	93.9412	24.3202	1.7616	13.2666	9.9374
19726	93.2941	137.6672	8.4542	102.2940	41.6228
24484	92.8824	104.3350	7.3347	73.9573	30.5980
15296	92.8235	784.4408	21.2975	676.4598	194.9081
25607	92.5882	186.9160	36.4290	63.0252	95.7433
25593	92.2941	118.3620	8.6812	83.4292	43.7964
24504	92.2353	84.1726	5.7298	62.5784	29.9288
15700	92.0588	74.3284	4.9498	54.6930	34.0139
16273	92.0000	93.5906	12.2044	57.8917	33.5057
16807	91.8824	177.3762	87.5765	874.0151	712.9315
503	91.7059	76.5594	3.9177	63.5658	19.2373
17758	91.5882	4.2128	0.8602	56.4252	229.5024
25568	91.5882	335.2620	15.2228	252.5841	113.4440
11892	91.5294	76.1600	7.2351	53.5710	26.2828
15580	91.2941	198.6780	108.7933	954.7729	601.3826
7637	91.2941	44.7778	2.0991	46.6076	17.1554
1336	91.2941	99.2778	4.1282	107.5818	31.4895
25513	91.1176	906.2274	53.9009	761.9096	325.8052
10625	91.0588	4.9316	5.5482	89.3554	102.4556
11989	91.0588	59.2232	9.1364	39.8846	23.4319
15127	91.0588	1724.2328	140.5552	1252.1302	500.1843
21396	90.9412	63.6908	3.9710	80.9826	49.2184
15510	90.8824	45.2702	7.6542	76.5925	25.4894
3865	90.8824	79.0148	2.6037	83.4557	28.3275
19795	90.8235	58.7540	4.8722	32.9449	27.9157
25254	90.7647	22.6156	5.3795	9.8087	13.1586
26047	90.7059	51.1446	7.2236	168.7138	200.7995
3910	90.7059	112.5130	24.7973	67.9576	28.0138
15348	90.6471	372.4036	20.9626	289.3569	59.5261
23491	90.4118	319.0662	40.4604	224.9020	88.2105
22865	90.4118	38.0764	3.9384	64.6772	23.4925
15579	90.3529	74.0460	56.2382	599.4210	505.1424
5497	90.2941	81.4788	15.5784	212.6287	135.2936
20493	90.2353	57.8022	10.8691	109.2519	46.8144
17346	90.1176	86.5488	8.0661	67.1442	30.7022
4346	90.1176	36.7792	2.1673	31.1202	12.9036
18368	90.0588	131.2218	9.0651	183.5459	50.6317
1538	90.0000	45.9038	15.1540	24.9244	32.0193
18564	90.0000	122.5354	8.7343	116.7661	47.0351
19671	90.0000	28.9852	2.4000	24.0637	14.1088
10320	89.9412	64.3176	9.7111	40.7421	26.0095
15342	89.9412	34.8068	3.0111	26.3494	15.1316
24766	89.9412	48.4916	6.4090	31.0942	18.1691
16624	89.8235	40.8434	2.9800	29.6602	18.0015
5618	89.7647	55.2498	7.1880	44.8410	44.3755
4748	89.7647	114.7102	40.6066	451.7638	360.7772
200	89.7647	64.6400	3.9044	52.4733	22.8435
16564	89.7059	100.7614	21.6395	169.9522	58.0278

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TABLE 5K: CHLORPROMAZINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6, 24 hrs				Document No. 1926271.2	
GLGC ID/NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16333	89.7059	35.1562	4.7522	25.9317	16.1000
15898	89.7059	20.6748	1.9673	15.7526	8.6520
405	89.7059	81.5054	18.9776	216.9587	115.4319
3240	89.7059	31.1786	3.6832	21.1787	12.8463
17078	89.7059	559.2618	16.9501	581.3948	139.0914
13450	89.6471	77.1658	8.5366	59.8118	26.1621
20313	89.4706	40.0272	3.7725	27.4294	14.3554
4749	89.4118	259.7420	59.0791	706.7230	504.9030
18023	89.4118	72.0302	7.6242	54.2988	25.4004
20583	89.3529	80.8728	13.8489	47.0803	29.0662
16635	89.2941	46.3628	19.6429	214.7971	138.9843
4714	89.2941	60.3908	6.7579	105.5119	54.4325
20930	89.1176	156.6378	28.0897	66.9267	85.1822
20876	89.1176	1359.7652	93.7617	1796.3519	416.1591
2384	89.1176	133.2338	24.8647	287.0999	166.2281
4257	89.0588	42.4916	7.4292	24.7181	15.0473
10819	89.0588	2379.7160	104.9025	2799.0268	738.4398
1570	89.0000	753.0378	89.7160	555.7858	166.7507
303	89.0000	45.1602	6.4148	31.8760	18.9900
16850	88.9412	21.7054	5.3358	12.1232	13.0392
20029	88.9412	20.7132	3.2468	12.0555	6.7426
15384	88.8824	74.4910	16.6397	48.2706	32.7962
25769	88.8824	317.9452	49.3446	232.7935	115.2437
455	88.8824	460.4418	99.5529	237.3197	146.3524
24425	88.8824	48.6216	5.3033	32.0412	21.5373
5617	88.7647	131.6944	68.5437	77.3230	101.5942
15069	88.7647	1029.2880	168.6680	763.7784	348.4664
11889	88.7647	36.1030	6.5536	22.8260	12.8903
17350	88.7059	47.3812	3.0498	41.8325	22.6382
5496	88.6471	86.5876	11.5875	164.7579	97.6430
17256	88.6471	5.2310	7.3474	56.0238	48.6234
32	88.5882	23.5556	6.6391	50.7615	27.3877
6626	88.5882	66.6232	5.5513	61.2332	31.2424
24883	88.5882	4.1360	6.8705	33.6922	24.0649
17439	88.5294	169.0584	20.3624	125.8160	51.7868
25460	88.4706	1215.0768	252.6216	867.3221	452.6767
18625	88.4706	125.7806	14.0600	96.2823	41.0829
24645	88.4706	75.3280	10.1167	115.7069	43.8617
4684	88.4118	45.6832	5.0990	57.9724	33.9022
15886	88.4118	285.0912	12.8015	242.2170	55.9808
16463	88.3529	59.4254	7.8903	41.0472	17.6215
25196	88.3529	38.0170	6.3063	22.5474	31.5080
21072	88.3529	-0.7052	7.9013	25.4456	29.3969
25130	88.2353	131.7430	43.6527	74.2702	47.9788
10523	88.2353	35.7604	4.2793	27.7224	13.2297
17258	88.2353	102.7654	4.5607	94.0890	30.4290
1024	88.1176	31.7864	4.7018	22.2329	10.0318
15755	88.1176	65.4488	8.4331	104.9755	45.3863
19296	97.2941	189.9730	1.0031	186.7824	49.0322
14426	96.7647	31.3270	3.2420	77.5749	43.9195
23533	96.2353	172.0558	3.2475	126.7680	44.0547
12354	95.7059	327.5316	68.5630	153.0292	76.0381

TABLE 5K: CHLORPROMAZINE					
Timepoint(s): 3, 6, 24 hrs			Attorney Docket No. 44921-5113WO		
			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15004	94.6471	496.5340	107.1557	262.0746	92.1475
12335	94.6471	207.9458	9.4933	134.3424	86.2787
19200	94.2941	380.0348	37.9959	228.2142	84.7042
9039	94.2353	77.5794	3.8130	46.0538	23.1881
22357	94.1176	1253.9860	17.9207	1319.7477	374.9694
9747	94.0000	104.4682	7.8856	39.2608	50.5684
8072	93.9412	16.7592	1.6705	27.9103	24.0093
3867	93.8235	47.2514	1.1865	38.3943	16.2266
12173	93.8235	32.0728	2.0233	17.4961	22.1939
3269	93.8235	47.4144	2.1273	33.6477	17.8781
20580	93.5294	139.7300	50.1044	70.3728	31.0538
20577	93.4706	197.7778	30.4737	70.1446	83.0611
6843	93.4118	454.4368	19.6934	341.1251	123.9641
10512	93.0588	95.8134	20.0957	49.6846	54.4947
633	92.9412	176.2368	19.1319	289.8834	95.5636
12140	92.9412	61.0412	8.3508	122.9711	57.6614
4740	92.8235	195.3764	27.0739	105.4906	46.8162
5910	92.7647	137.5406	4.7144	151.4205	56.2963
2619	92.7059	119.8652	6.1805	183.2241	56.6529
13558	92.5882	43.5528	10.2178	14.1823	21.8613
17555	92.5882	151.3618	5.3888	118.6249	38.1952
22185	92.4706	74.6302	25.9685	16.0859	32.6138
2688	92.4118	168.7418	3.9512	167.8800	47.7374
21869	92.4118	73.9806	5.0400	45.2440	27.6883
6836	92.4118	49.9832	4.4363	25.3347	22.5025
4994	92.2941	20.5412	11.6401	99.4351	54.4171
15084	92.1176	79.2754	10.3476	50.5767	45.2601
15582	92.0000	208.4404	107.7237	1666.7608	1549.0887
21587	92.0000	255.9174	27.6546	145.6375	72.8952
4936	92.0000	451.1840	22.2058	700.4327	245.0445
2921	91.9412	6.8556	20.8178	105.5568	72.3998
11419	91.8824	41.6156	5.2514	74.9265	33.9950
7497	91.7059	504.7084	86.7264	886.0931	228.0081
18411	91.7059	123.0802	7.1474	121.5159	67.4125
4959	91.7059	54.8622	6.1037	31.8762	17.7569
15329	91.6471	21.6830	3.0708	5.4081	30.9445
24156	91.5294	53.5152	6.2308	24.0392	22.3617
11952	91.4706	49.7710	8.1807	7.5132	73.2079
12196	91.3529	492.2936	23.8208	619.5163	103.8602
20992	91.2941	190.7370	14.3386	143.2408	47.4415
1937	91.2353	1290.9086	245.2469	790.3732	330.3806
9828	91.1765	79.3456	7.1913	53.1167	57.5459
13690	91.0588	53.3618	8.2049	24.0088	40.5915
12706	91.0588	109.5786	7.1657	77.8529	32.5610
4279	91.0000	75.2412	5.9424	52.9655	29.0747
14000	91.0000	71.4472	7.5144	33.6695	33.3071
3683	91.0000	34.0736	5.0770	2.8114	33.7632
9543	90.9412	174.9230	14.3543	121.6465	54.5476
13064	90.8235	36.8520	4.9241	19.0385	19.7297
5709	90.8235	39.1282	4.3808	23.2561	23.2334
3801	90.7647	97.0108	13.8435	71.7459	66.7963
13046	90.7059	71.9916	8.6273	44.3298	26.7371

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TABLE 5K: CHLORPROMAZINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6, 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14837	90.6471	226.3512	56.8086	113.0195	124.5462
17054	90.6471	1108.3922	50.0373	1433.9992	331.2486
2046	90.5882	203.3286	24.6980	142.2909	54.2032
4595	90.5882	163.8730	18.8209	108.9718	87.7655
24007	90.5882	267.5926	13.7270	221.3553	66.0724
2220	90.4706	153.2868	73.3527	141.4536	43.6054
11374	90.4706	88.0218	8.0991	57.8246	20.5614
4703	90.4706	231.0480	37.8352	588.9483	315.8416
14880	90.4118	167.0852	14.4825	101.7130	59.0292

TABLE 5L: CHOLESTASIS					
Timepoint(s): Various			Attorney Docket No. 44921-5113WO		
GLGC ID NO.			Document No. 1926271.2		
LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
4574	79.4006	165.6841	73.0821	331.3880	126.9282
9109	78.4889	97.3125	30.5322	150.7592	43.5812
20746	78.0482	961.7283	481.9595	553.0097	293.3602
15203	77.4241	322.0486	57.5614	253.1301	57.5049
25777	77.0692	2583.5935	642.0815	1724.5393	545.4002
13283	77.0414	68.6493	33.7083	147.3881	71.4774
24327	77.0089	1454.6249	424.0160	1014.1260	331.3298
14633	76.5055	267.8437	139.9260	496.6602	203.3762
16180	76.4313	50.9894	25.8351	96.1543	42.9019
21653	76.0903	662.1445	112.6740	513.1436	142.8306
12639	75.9233	3407.5353	750.9890	2714.8084	600.4977
1435	75.6890	1273.9597	425.5582	922.0724	269.2273
12848	75.4129	22.4765	11.4949	39.7327	17.4894
14495	75.4129	68.2163	31.3494	144.6767	75.9445
16929	75.0719	2388.7566	410.1245	1967.3278	393.1108
19825	75.0441	25.8068	19.0747	74.0879	55.6843
25071	74.8446	713.5386	278.6210	408.8477	256.4053
21078	74.8028	75.5586	29.9258	138.0262	75.8398
3910	74.7912	102.2325	40.8331	67.1514	27.0510
4573	74.6428	593.1724	208.5124	850.2013	240.8445
25702	74.6033	2209.7507	422.7364	1703.8710	358.5456
17913	74.5360	289.9709	50.0715	229.6569	62.5636
24649	74.4549	67.4977	20.6058	93.0963	26.3805
24645	74.4015	66.5062	29.6118	117.0064	43.3451
20405	74.3342	119.4956	69.3862	221.6113	96.3071
5497	74.3273	95.5495	51.6700	215.5096	135.4780
5496	74.2670	84.4658	33.0445	166.8046	97.8464
5622	74.1602	817.6813	332.3639	1333.4749	439.3256
17764	74.0071	3399.3966	860.8262	2501.0974	621.0387
11852	73.9793	95.6598	37.3724	148.6376	54.8563
20939	73.9607	824.3269	308.9971	538.4651	169.1885
15239	73.8796	2029.4460	539.5724	1639.0083	411.6352
1598	73.8587	402.1292	218.8234	278.1716	273.0912
6055	73.8517	139.3522	121.4838	319.9356	162.0739
575	73.7381	126.3094	124.8938	170.5755	103.3838
32	73.6917	18.6938	28.3557	51.6032	26.7678
15618	73.6453	420.5873	136.6370	261.6468	121.4600
6538	73.6453	148.8832	65.3860	117.4932	43.6633
18107	73.4110	982.5329	237.4508	786.0224	162.1233
15391	73.3831	1908.3296	319.0412	1618.8990	322.5136
18611	73.2231	3708.1375	996.5390	2780.4319	782.4267
15876	73.1488	3462.6941	620.1241	2824.3522	559.2189
13646	73.1094	2004.4324	415.1948	1607.6490	274.5982
17075	73.1024	920.5510	201.8759	741.5989	157.2949
15580	73.0676	378.3579	321.3056	968.2908	600.5079
1394	73.0421	36.6140	13.7114	24.7541	10.8882
25719	73.0282	3327.8048	633.0755	2746.2097	601.8796
563	72.9934	284.5637	183.0894	588.4595	353.8856
20493	72.9609	57.5665	40.4174	110.5626	46.1389
8597	72.8333	22.1950	24.9393	43.9053	29.4270
1529	72.8264	69.3517	28.4358	115.2634	46.8012
573	72.7591	26.7293	22.6775	81.6119	58.9865



TABLE 5L: CHOLESTASIS				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2853	72.6942	378.0776	133.5195	240.1676	84.0917
20745	72.6408	676.4795	345.3671	405.5890	213.3168
16564	72.5991	114.9801	52.8632	171.2589	57.4702
1045	72.5596	104.4333	29.8514	84.0269	27.0164
25691	72.5063	2940.2627	571.1903	2235.4627	438.1596
492	72.4645	247.0318	64.0840	197.9152	90.7431
844	72.4251	100.3562	37.5163	143.5931	38.1988
2629	72.4042	243.9301	77.6442	198.7680	121.8019
24693	72.4042	323.5360	302.7960	784.7289	485.3481
23180	72.3926	1836.4734	366.3788	1358.7049	263.1749
2854	72.3323	1036.2847	321.5506	700.5712	192.7564
10109	72.3114	3790.5750	765.7910	3009.3772	683.8815
25643	72.1374	754.1131	221.0002	540.1335	205.8014
1571	72.0910	772.2885	240.8039	571.0819	167.8718
17100	72.0701	2607.5015	509.0910	2099.3222	449.5789
402	72.0493	523.2053	317.9222	1091.4447	528.6485
10540	71.9681	14.1985	10.7970	30.6215	21.4369
21654	71.9565	1128.0539	243.4005	847.3962	218.5679
23610	71.9286	91.3460	28.4258	70.9267	32.3441
4749	71.9147	278.5170	184.3303	717.4569	505.6846
1570	71.8962	717.5533	183.2231	551.9019	164.1171
20716	71.8892	296.8224	153.0559	529.4607	178.5379
21975	71.8475	-1.1538	21.6590	31.3715	52.3861
16417	71.7547	210.9638	48.1214	163.9326	51.2645
16562	71.7477	98.3105	32.7625	148.8998	50.3522
25559	71.7083	226.0653	79.4783	164.8562	79.9303
23660	71.7013	790.7892	304.0453	1003.4002	277.4715
12349	71.6735	19.7650	25.9062	54.3144	57.4899
1347	71.6410	3000.2530	523.9789	2506.4735	524.5446
24886	71.6340	2953.1643	435.2977	2493.4437	488.2991
17648	71.6132	18.6935	17.8222	42.9121	25.9864
15617	71.5876	285.1742	83.4584	200.0278	88.6341
815	71.5807	3498.3003	645.6523	2927.3095	648.8950
5667	71.5412	2295.8955	432.4384	1836.2420	340.8936
2384	71.4995	124.6602	103.7609	291.2665	165.2499
20735	71.3533	1351.6455	419.4091	1005.4906	341.0272
4426	71.3533	365.8114	88.4254	274.7155	75.1694
19073	71.3464	550.0102	106.5871	459.4606	100.3010
19377	71.2930	272.7882	61.7753	224.4176	51.1114
19423	71.2513	70.6737	25.2362	122.3912	59.6004
20810	71.2327	4060.2385	950.3280	3121.1506	813.3690
570	71.1863	334.3847	109.7790	256.7642	79.4442
17765	71.1863	2420.2170	715.0608	1862.2464	451.7154
20464	71.1376	102.8750	104.3153	260.9183	161.5037
15579	71.1306	197.6970	217.1262	608.8516	506.6977
794	71.1306	28.2883	13.3216	58.3205	33.3486
19241	71.1121	258.4010	71.3619	192.8832	68.2241
16204	71.0982	2196.0532	368.7722	1860.3855	376.9708
20553	79.6279	124.2669	41.7055	181.9377	49.3149
4900	78.9645	308.1547	40.3865	412.3240	102.7843
6291	78.8972	164.6954	52.7937	261.0746	95.9925
2855	78.2082	1208.1731	192.2500	907.9505	210.3230

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TABLE 5L: CHOLESTASIS				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21649	77.9878	805.8189	377.6339	397.1322	212.6387
3995	77.8185	149.9227	59.8344	268.7370	114.4310
22050	77.5239	151.5247	151.8725	388.6408	200.2444
3674	76.7932	149.3300	40.6021	215.1673	67.1620
965	76.3176	64.8423	43.0603	147.2185	76.7402
19456	76.2457	382.0009	259.0254	149.7466	133.7086
19544	76.2109	1843.3524	322.2852	1429.3090	371.0082
17049	76.0230	52.8462	38.8063	95.8793	44.4573
5833	75.7145	37.4847	16.1724	71.7680	34.5678
23504	75.6890	730.8308	164.0784	537.0571	138.8860
10986	75.5869	43.4525	27.6036	92.4370	51.6479
14033	75.5335	151.6182	34.9164	205.4173	61.8036
12719	75.5150	232.6865	95.9466	147.3161	66.6184
2768	75.2320	558.6567	259.5941	954.2630	413.1299
16	75.1647	216.5342	97.3646	332.0541	130.6371
5779	75.1113	226.9808	49.7330	292.1105	70.1655
2242	74.9374	223.8753	138.9898	497.3607	255.1369
8949	74.7309	1350.8827	329.1735	993.5350	278.9012
14919	74.5500	60.6374	43.4818	28.7839	35.6413
13622	74.5221	147.4579	75.0775	90.0309	109.2600
2702	74.4363	1231.1184	408.9965	808.5549	285.2637
19193	74.3945	181.9765	37.9980	229.4206	50.1151
5431	74.3157	1098.8572	497.3058	516.4719	334.4323
3302	74.2739	58.9605	43.8855	106.7758	48.5110
4048	74.2623	732.2437	543.7110	285.2242	261.5850
15474	74.2414	1098.2943	241.0116	864.9816	195.0165
6479	74.2206	268.3006	232.2732	426.3749	207.2021
15665	74.2136	432.2400	77.6883	535.8324	108.1791
19200	74.0744	344.9336	132.0672	225.4692	80.8763
21023	73.9863	69.9582	29.0981	112.9460	38.2104
23505	73.7195	1789.3384	607.7433	1280.9872	293.3750
7420	73.7102	211.6594	32.4429	283.3052	110.0999
18390	73.6708	14.4472	12.3332	35.0634	20.8541
4049	73.5989	1299.0377	795.5471	588.8484	412.1115
11640	73.5177	65.1928	26.9805	41.7007	21.5126
3143	73.4226	181.0684	47.5773	231.9670	58.0737
2308	73.4040	153.4243	68.6211	91.1303	65.9566
21454	73.3692	146.0104	61.7547	204.6728	67.4720
23278	73.2695	114.0732	31.9096	85.3375	32.1554
6828	73.1952	200.7637	119.3367	329.7947	142.9792
3909	73.1628	174.8668	53.9992	116.8775	45.4056
6102	73.1280	119.9355	29.3398	159.8837	43.1765
10549	73.1164	265.7053	151.1481	149.6598	79.3839
633	73.0816	185.7067	76.8983	292.4652	94.4339
3969	73.0676	40.0970	30.9291	93.6168	52.8788
4230	73.0421	493.7389	109.2841	410.9791	85.5778
6717	72.9470	130.3063	68.1654	229.4734	100.1114

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TABLE 5M: CI-1000					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
670	99.7653	109.2667	1.4250	313.2507	123.6200
5049	99.6479	255.5433	0.9943	177.3817	40.2066
1583	99.4131	245.6533	4.2244	122.4281	42.2862
1571	99.2958	1228.2500	29.9785	574.9081	169.7658
1378	99.2371	98.1567	7.5740	43.6701	14.4101
5496	99.1784	49.0667	1.5494	164.7065	97.4735
1728	99.1197	390.6900	10.3068	227.4793	89.7786
14934	99.0023	171.4667	2.8567	112.6667	24.9171
574	99.0023	4432.0900	433.0419	2041.0439	559.2697
10544	99.0023	702.1267	28.7354	466.2711	88.2788
21794	98.9437	5.9200	1.4409	51.9048	27.6480
1348	98.9437	71.9967	2.6695	34.6180	15.8705
6343	98.9437	51.9167	0.2376	41.2834	12.6676
15205	98.8263	136.0033	0.5450	110.1822	28.2962
1798	98.6502	347.1167	18.1798	1201.4371	660.9475
24814	98.5329	389.9067	22.2973	242.4929	50.7766
23250	98.5329	317.7900	34.5316	184.5249	32.2940
16947	98.4742	147.5900	6.7977	346.3244	139.5571
16164	98.4742	1717.2267	19.0810	1282.2552	248.2322
18498	98.4155	412.3833	23.2997	237.9374	55.0359
798	98.4155	128.0433	16.3359	52.3820	22.1796
22576	98.4155	484.4533	5.2279	711.5532	187.8862
23166	98.3568	758.8567	5.8728	555.8734	136.3963
15087	98.3568	279.6733	7.6845	185.4370	49.5093
16006	98.3568	341.7733	31.6536	152.3438	61.3565
13283	98.3568	44.9933	2.4919	145.3458	71.7815
17956	98.2981	167.2833	1.7321	121.9187	30.9906
20801	98.2981	441.4867	15.5470	223.4285	103.5682
20701	98.2394	78.4500	6.5257	399.3628	199.3835
25594	98.2394	700.5833	17.1686	495.3327	96.3041
24554	98.1808	25.3833	1.2726	8.3882	9.9661
108	98.1808	773.3800	30.0161	1572.5431	614.3471
20664	98.0634	373.3533	7.0277	632.8882	324.0494
20755	98.0634	2569.4500	1103.5913	1186.1377	361.2377
20939	97.9460	971.5300	40.5873	545.6637	180.0993
1570	97.9460	1078.9433	92.2747	555.1012	164.3824
16024	97.9460	520.0167	175.9134	192.3830	82.5085
21154	97.9460	116.8600	67.0157	41.5287	15.9550
16025	97.8873	313.1433	73.8778	123.5085	60.4607
17115	97.8286	-3.3700	1.9489	24.6041	17.3169
22282	97.7700	289.0300	24.6275	144.5153	45.1435
1146	97.7700	65.9467	2.7375	36.8626	18.4065
17469	97.7113	25.2833	1.7044	72.0728	33.2749
626	97.7113	300.2133	58.0755	88.9194	74.2778
4439	97.7113	108.7500	17.9984	243.5820	73.9585
16993	97.6526	34.6133	2.3544	111.5754	66.0610
16780	97.6526	85.6667	3.4591	174.8928	96.3966
20468	97.6526	61.3867	1.5039	39.4093	13.2797
590	97.6526	120.0800	41.8952	47.2379	17.4948
16026	97.5939	501.4433	107.8294	165.7790	89.4589
25680	97.5352	731.8500	13.9577	1070.4154	308.0196
797	97.5352	182.6967	38.4154	83.5112	32.5417

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TABLE 5M: CI-1000					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1292	97.5352	287.3300	64.0326	143.1721	40.0082
25559	97.4765	413.7433	45.6196	165.8478	79.3219
220	97.4765	62.7800	8.3060	16.6729	17.7958
13090	97.4765	53.6700	1.3599	79.6554	44.4111
11296	97.4178	207.5767	19.8887	114.2760	38.6626
18083	97.4178	64.3867	3.2809	44.9517	64.7309
23070	97.3592	373.7700	19.8960	239.4271	58.1083
23522	97.3592	522.0300	168.1060	251.2805	77.5466
4500	97.3005	91.2867	12.2044	34.2459	25.6602
16507	97.3005	244.4500	57.3410	102.5853	36.6316
17933	97.3005	375.1967	7.3511	248.4946	135.1609
16400	97.1831	4552.8167	41.4097	5000.0182	1710.9174
4234	97.1831	1167.4333	69.4723	726.1453	170.3302
14965	97.1244	-11.7567	2.1011	46.4480	74.1618
16331	97.1244	187.0333	36.4728	427.8147	123.5245
16422	97.1244	32.8667	2.7575	10.9854	13.4247
2439	97.0657	89.5267	0.9563	74.6812	19.1225
20944	97.0657	1657.5900	37.1916	1253.9953	273.6565
20016	97.0657	111.7333	9.9230	65.6507	19.2915
3896	97.0657	-42.0067	6.5541	26.0443	43.2103
22927	97.0070	23.5600	0.8418	50.2208	20.6457
18770	97.0070	1279.4833	57.8708	814.8949	196.9496
20462	97.0070	2309.8967	30.3477	1700.8470	409.7434
6980	97.0070	16.4400	2.7944	50.3021	20.8320
14822	96.8897	697.1700	115.6587	333.6376	103.9976
15662	96.8897	298.1233	104.8819	144.6870	42.7375
15203	96.8897	354.5367	10.7799	254.8762	58.4835
24423	96.8310	68.9967	1.1002	59.7184	32.5583
15348	96.7723	416.6400	17.2558	289.3961	59.3279
4314	96.7723	49.1567	8.1657	163.7525	83.7373
16367	96.7136	93.6633	46.5769	624.0589	286.3909
10154	96.7136	542.9100	52.2330	256.3417	108.2705
1004	96.7136	142.6600	41.8361	73.6771	19.8325
25251	96.7136	1880.0567	314.3731	1122.2207	270.4215
15862	96.7136	272.1700	12.8224	157.6527	80.2857
13646	96.6549	2437.1900	244.1212	1616.8365	283.8840
11690	96.6549	411.9900	48.6256	249.1199	60.9719
19073	96.6549	788.7100	155.6956	461.0645	99.6541
23524	96.6549	1013.8800	305.6420	394.0130	190.7106
24469	96.5962	2134.1067	132.5766	1502.8377	249.5406
15661	96.5962	97.4267	37.1834	29.5261	26.1288
15925	96.5376	154.8867	1.8963	176.8176	53.3741
20586	96.5376	44.1067	5.7000	141.7868	69.2698
18727	96.5376	1450.8800	101.6631	879.3348	227.3248
21064	96.5376	291.1633	63.4738	161.7798	43.1976
12580	96.4789	37.5533	3.7391	19.9032	6.8123
17549	96.4789	1296.6000	126.6526	866.5677	161.9721
573	96.4202	8.6367	2.2945	80.1940	58.9212
13614	99.7653	51.4367	0.6045	178.4272	62.9327
11610	99.5305	570.7167	19.9658	248.0251	85.5200
9309	99.5305	142.4767	0.1106	177.9681	68.9937
18777	99.3545	195.2400	10.9760	42.6115	54.1772

TABLE 5M: CI-1000			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22310	99.2958	316.3067	1.0624	236.1521	65.5293
22102	99.2958	633.5467	26.2193	357.9602	99.6842
3501	99.1197	61.2333	2.8761	132.3045	35.4217
15663	99.1197	575.4367	17.3292	320.7241	95.9910
18278	99.1197	30.2633	5.3071	-16.0733	31.9931
23521	99.1197	60.4533	1.9468	275.4023	250.8535
23860	99.0023	310.3067	34.2716	155.6076	53.0030
6996	99.0023	165.6633	21.3460	52.7652	33.0613
14521	98.9437	198.1933	4.4558	404.1931	113.9929
5899	98.9437	33.5000	1.8694	133.6170	73.2164
21747	98.8263	330.9267	10.0221	577.5927	117.6615
6033	98.7676	72.8967	12.1374	234.5824	89.9683
9845	98.7676	126.4867	2.2293	219.0457	145.8746
22915	98.7089	409.8567	8.9472	270.5227	67.0960
23630	98.7089	789.8200	15.8398	572.6460	88.5943
4636	98.5915	424.3433	37.2686	167.6131	106.7794
2382	98.5915	33.0133	0.4244	38.8910	30.3760
24501	98.5329	2075.2267	251.8815	1157.4128	234.9732
15403	98.4155	546.1933	46.7329	280.4099	85.4148
18524	98.4155	233.6633	14.6275	765.1900	330.9064
2909	98.4155	422.4233	2.8325	554.7932	128.3919
15685	98.3568	1989.9867	311.4854	741.8780	307.4329
13919	98.2981	64.7367	3.1163	120.7609	33.6779
6291	98.2981	87.3167	13.8000	258.7453	96.0150
9500	98.2394	66.0900	1.3126	7.2284	51.3678
13169	98.2394	173.3367	15.4458	95.8285	22.8417
10920	98.2394	-1.0367	2.1789	85.9320	76.8110
2933	98.2394	16.1500	0.5568	35.5228	18.3151
12563	98.1808	634.3933	111.9324	329.1652	79.9587
13346	98.1221	474.6867	12.4790	300.5931	84.1555
5044	98.1221	161.4467	18.7470	80.3131	25.7622
23738	98.1221	290.9200	2.6960	239.5445	129.5699
10986	98.0634	12.0067	3.0410	91.2254	51.6411
18383	98.0634	210.0600	8.3092	383.9724	106.3083
6224	98.0047	150.6700	23.3596	56.7133	28.0139
19371	98.0047	24.8700	4.2551	68.5993	25.1045
10138	98.0047	43.7667	0.3850	41.5785	19.7245
22994	98.0047	83.8300	2.2727	37.1601	36.9991
8395	98.0047	10.1200	4.8138	78.3065	55.3462
3246	97.9460	236.8700	24.9178	103.3871	56.2319
26184	97.9460	126.0933	11.4259	259.9223	69.6064
17365	97.9460	113.6667	10.3302	32.2327	56.7916
5258	97.9460	68.1000	10.8405	191.4370	56.1991
5615	97.9460	127.1533	7.1602	71.2396	37.1519
2267	97.8873	415.0967	49.5361	200.1208	65.6690
7926	97.8873	49.1133	1.4162	87.4598	25.8601
6717	97.8286	59.7300	7.3683	227.0449	100.4030
2911	97.8286	39.1667	9.9651	285.6090	178.9471
3631	97.8286	235.6533	18.8155	149.6967	30.5550
4650	97.7113	398.0633	39.7717	224.8837	54.6099
13563	97.7113	194.5233	26.8819	465.4959	150.1683
2250	97.7113	3776.5600	1073.1660	1640.6670	668.9172

TABLE 5N: CI-1000					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271:2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24431	97.4706	1034.1400	108.6216	399.8884	305.4188
2413	96.4118	1028.7020	34.2481	764.4779	150.1153
13282	96.2941	28.6100	0.5787	45.0436	23.3164
804	96.0588	1769.3440	160.7889	990.3905	374.3138
12041	95.4706	335.3120	4.9795	288.0305	73.1125
6598	95.1765	322.1120	66.4455	121.8002	72.5937
20443	95.0588	123.5800	1.7404	136.5106	38.2741
18615	94.7059	2381.5580	109.8609	1712.8194	372.8216
888	94.4118	95.2700	4.9641	155.8538	51.7529
923	94.2353	419.3100	39.8759	192.4002	110.0052
20930	94.0588	-1.7760	9.0345	67.8586	85.3116
18302	94.0588	183.6780	5.6032	137.1737	73.1820
24785	93.8824	32.2480	3.1239	58.3371	24.4316
15300	93.5882	841.9220	49.8646	641.4178	346.5659
23368	93.5294	5.9340	3.3979	42.4058	35.1429
904	93.3529	27.3180	4.3288	49.3116	13.0483
1141	93.3529	147.2860	10.0730	224.4452	56.6941
24670	93.3529	161.1580	4.8217	174.5034	65.2681
353	93.1765	677.5700	85.8249	411.4283	247.9680
25799	93.0000	92.9600	8.6253	213.7970	141.3837
652	93.0000	76.3920	19.1592	313.1565	220.3620
19173	92.9412	14.7680	4.4595	34.4182	13.9837
13930	92.8235	257.4600	16.2507	198.2846	97.9649
16164	92.7647	1646.1880	87.4699	1281.6496	248.2284
16524	92.4118	19.1060	2.9601	38.0547	14.7745
5005	92.4118	33.3640	4.0239	13.9322	12.8438
15996	92.3529	521.2080	124.9346	245.8453	153.7129
18628	92.3529	3628.6260	143.6978	2825.7367	653.5794
15190	92.2353	6553.7540	728.4085	3985.2090	1983.2836
13477	92.1765	15.9540	3.3237	36.7683	15.1090
14971	92.0000	58.0280	2.7318	55.1424	20.5960
15421	91.8824	270.8100	44.7634	420.9979	90.8706
21400	91.8235	153.0840	38.3839	348.6602	149.9489
4956	91.7059	76.0100	15.7049	197.4789	91.7442
23000	91.5882	19.1720	6.4099	42.4005	13.6129
23522	91.4118	387.8460	54.1446	251.4328	78.9276
6780	91.4118	369.5900	11.8564	468.2767	160.8321
24247	91.1176	26.1900	4.6793	76.9325	79.6843
24219	91.1176	862.7020	121.3547	604.0197	179.9719
10623	91.0588	148.1620	45.5201	67.9046	58.4806
16610	90.9412	646.1140	58.1148	435.6391	145.0453
1301	90.8824	813.4660	48.5109	1314.6762	1212.6114
17920	90.8824	33.0140	4.4513	61.3899	23.5226
18362	90.8235	29.4700	7.8319	64.0001	23.8261
15735	90.7647	58.3820	7.8455	103.9030	35.5648
4957	90.7059	64.5240	9.5019	148.2250	68.0133
25481	90.6471	4715.0720	442.9352	3277.9920	967.5329
24607	90.4706	12.2300	1.7371	48.9413	42.7736
25050	90.4118	5403.0820	1055.6950	3336.5601	1262.1018
23883	90.4118	47.5660	10.3078	166.5156	118.5817
15703	90.2941	56.9740	13.6309	27.3566	16.5405
798	90.2941	62.0640	3.3320	52.5921	22.6561

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TABLE 5N: CI-1000					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11483	90.2353	713.5020	204.1242	392.8079	252.7852
16192	90.2353	15.8940	3.6655	28.2224	9.5890
13974	90.1765	534.6420	153.0097	913.7961	255.9098
17728	90.1176	5830.3140	771.1900	3980.5134	1034.8309
6109	90.1176	4895.2420	428.0896	3319.0653	1560.8639
25319	89.9412	9029.9740	884.8943	6306.5330	2503.0127
20718	89.8824	13.9980	5.5288	34.7498	16.3231
22999	89.8235	9.1620	5.4009	27.7722	12.5563
14015	89.8235	-5.7920	9.6701	36.3026	52.4709
11852	89.7647	62.5200	23.8315	147.5237	54.9023
15862	89.7059	107.1480	6.2026	158.3539	80.5730
7176	89.6471	307.7920	15.2426	306.0791	134.9802
7459	89.5294	2098.2180	304.3621	1491.5148	428.2679
10625	89.5294	166.5520	52.1349	88.4047	102.4229
4186	89.4706	5662.6760	558.7624	4098.0811	1196.6038
19421	89.2941	6704.2300	946.7344	4435.3045	1607.0724
13186	89.2353	3.1260	8.6859	20.3624	11.3186
1373	89.2353	33.9900	7.5279	67.3279	24.0953
3513	89.1765	134.0540	8.2603	190.2385	66.9083
4243	89.1765	63.0400	12.2477	122.6823	46.5055
1159	88.9412	184.9080	36.4153	301.8924	90.3406
17147	88.8235	2852.6380	403.6589	1699.7616	968.9198
15997	88.7647	549.4660	188.0514	289.8793	218.2025
15023	88.7647	235.6260	49.0838	361.0430	83.3063
15767	88.7647	50.0960	6.8920	83.0854	29.5677
2968	88.7059	1259.1420	191.8247	658.3778	476.9341
10624	88.5882	165.3360	41.6917	97.2620	96.1943
10622	88.5294	122.8620	46.1321	45.9580	98.8111
1153	88.5294	205.7600	11.8571	183.6851	103.0918
15187	88.4118	31.6500	14.3440	91.9392	50.2737
18494	88.3529	91.6680	9.6136	129.0817	49.3112
25568	88.2353	90.3700	77.7225	254.0246	112.8068
19530	88.1765	-5.0800	8.4039	20.3713	29.6535
18719	88.1765	163.2420	20.7948	129.2359	94.9131
23950	88.0000	92.2500	3.8588	87.2017	24.6582
844	87.9412	139.2860	4.8886	142.2959	38.9852
520	87.9412	55.3640	6.1238	32.0487	28.9950
354	87.8824	730.3560	158.3495	511.9149	323.0557
20590	87.7647	314.6420	23.3622	262.2327	86.5809
2009	87.6471	12.3500	1.8548	27.0938	21.9744
1120	87.6471	16.2640	2.3289	23.8793	12.1322
6980	87.5882	20.1980	12.4517	50.3597	20.8085
15301	87.5882	362.7080	57.8896	269.2646	181.4033
19020	87.5882	56.9120	2.6764	58.3371	19.0458
1888	87.5294	178.7420	51.1160	106.6637	62.8830
1655	87.5294	15.2420	4.8562	29.8666	13.8015
18419	87.5294	442.8260	61.6724	639.7023	149.3196
1540	87.5294	41.2500	12.9064	97.7301	49.3266
18658	98.1765	2315.9540	371.8218	889.9863	356.0617
23030	97.1765	79.3620	24.6053	362.4642	189.7508
7414	97.1176	956.9020	37.4384	619.9796	161.1593
23538	96.4706	1000.5520	202.8691	355.3829	205.9637



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TABLE 5N: CI-1000					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15608	96.4706	1954.3840	286.1675	1272.9904	250.5551
13619	95.8235	949.0520	333.2540	287.0541	235.7976
15644	95.7647	2590.9860	410.5826	1507.3891	392.3679
18271	95.4118	43.6100	25.1680	182.2875	79.9073
22586	95.4118	7160.8860	370.5684	3812.6195	3591.4430
17506	95.0588	1809.8800	593.6427	473.8423	404.5598
12129	95.0000	99.2360	1.9519	92.4325	35.9305
15645	94.9412	2319.3640	418.6155	1318.2232	413.7231
15277	94.5882	2591.2200	246.1259	1970.2948	279.9681
18518	94.5294	155.0500	2.7510	155.2614	61.3857
8214	94.3529	86.7840	24.9473	-2.4802	50.1150
6171	94.2941	10.2500	4.0686	70.1403	87.0632
23963	94.2353	36.1120	29.1626	23.0925	17.6345
15377	94.1765	99.1080	26.6616	51.7428	22.9047
24166	94.1176	299.4360	29.0826	435.5466	84.8758
8472	93.9412	46.6220	3.1565	5.5747	52.4482
3489	93.7647	1646.9340	155.3216	1166.8770	237.0691
9521	93.7647	393.0400	24.0117	282.2748	72.5988
15684	93.7059	1399.2220	93.6975	1015.7591	221.9420
11446	93.7059	662.9320	33.0635	491.7734	107.5781
13000	93.6471	124.9960	19.1307	253.0844	89.7414
9569	93.4118	29.5060	3.1637	55.9737	28.7660
23029	93.4118	155.7880	58.5653	538.1063	265.2547
19367	93.2941	3100.0280	351.7345	1360.8888	1336.4107
24685	93.2353	633.9500	16.3760	592.4747	157.4125
7584	93.1176	385.3660	12.0288	567.7686	307.9080
21861	93.0588	464.3760	59.5905	324.2710	73.3725
7970	93.0588	49.5940	9.6545	94.8524	30.5912
14083	92.8824	155.9720	9.3969	253.3763	86.8349
1802	92.8235	125.2780	35.9462	311.7226	135.5350
23567	92.6471	414.9280	141.1465	148.1559	163.7202
7888	92.6471	1220.2820	61.8934	872.6283	219.2270
1649	92.6471	85.3660	3.6099	68.2389	33.8666
22995	92.5882	91.3300	22.9725	314.3172	210.7428
11178	92.5882	336.0900	20.1139	520.0071	175.1173
17361	92.5294	189.7800	25.3171	83.2950	60.6835
11941	92.4706	20.4920	0.8482	24.6151	14.9378
19016	92.4118	250.1760	10.8302	338.7179	106.5135
22030	92.3529	10602.2940	1345.7602	6778.9575	2054.0896
10569	92.2941	502.6840	75.5339	351.5089	82.5322
17235	92.2353	88.3420	11.3560	54.9210	34.1944
4900	92.1765	275.8660	24.3842	409.9404	102.7885
14455	92.0588	54.0180	15.5339	149.7569	78.6527
11088	91.8235	5.1720	15.1860	44.2996	22.4361
5193	91.7647	3602.6300	209.7557	2738.5793	540.1233
5712	91.7059	392.8300	50.5521	261.8838	71.1319
22969	91.7059	258.2040	63.3190	457.5266	115.8489
18505	91.7059	112.6400	19.3380	189.1628	54.2937
7755	91.7059	39.2520	7.6683	6.6065	34.5529
19731	91.7059	719.2800	48.0556	755.0722	490.6361
4197	91.4706	136.1840	18.8341	82.4122	31.9984
19429	91.4118	3400.9380	682.0782	1941.4323	882.5320



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TABLE 5N: CI-1000			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11714	91.4118	85.2340	25.2796	247.3258	126.9750
3250	91.4118	187.9300	11.0272	137.4563	72.3509
23338	91.3529	5599.8240	557.8960	4352.5030	771.4137
14324	91.3529	40.9240	10.0128	17.9795	19.9128
2750	91.2941	1719.8800	85.9817	1326.5228	563.4849
12733	91.1176	25.9460	17.5704	66.9655	24.8429
23276	91.1176	2266.6460	273.3790	1774.1728	301.3673

TABLE 50: CLOFIBRATE					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25370	99.8239	311.8467	14.7162	66.7698	46.7448
17758	99.8239	1484.9367	35.5040	51.0888	212.9279
15580	99.4131	3614.5000	294.1663	940.9705	582.1453
16150	99.3545	1416.9233	129.2865	252.2391	172.7053
1858	99.3545	1456.6233	148.6207	39.0594	191.4676
16148	99.1784	2925.9933	362.2280	478.7869	333.3867
21014	99.1784	256.7467	5.5982	829.1977	437.6232
21302	99.1784	204.1567	0.5686	168.9794	49.0536
20713	99.1197	1915.0867	359.7308	126.8056	215.3496
20711	99.1197	586.9700	149.8880	8.3325	60.7773
20715	99.1197	1310.0800	219.5631	81.9242	135.3678
18958	99.1197	307.4900	32.8201	86.3942	68.4554
18293	99.0610	2921.4433	342.8213	645.2560	352.8351
18687	99.0610	2848.0633	174.5659	518.2885	408.5049
10538	99.0023	231.7200	37.4664	2.0664	42.1288
20714	99.0023	1509.4933	408.6101	145.8500	174.3141
15579	99.0023	2944.3933	295.4255	588.0808	486.2991
16546	98.9437	415.7033	61.5219	97.0600	60.4733
21729	98.9437	2302.3933	281.6638	446.2456	352.9565
20555	98.9437	492.0300	70.2561	80.4587	76.5101
18686	98.9437	3137.7533	244.7693	555.7317	460.5067
1857	98.9437	1227.1867	368.1320	24.2703	177.2000
397	98.9437	164.9133	10.9240	48.3111	50.0019
20925	98.8850	1708.2167	318.4780	222.7321	234.3041
20983	98.8850	1014.9533	151.8518	122.5533	122.3082
1977	98.8263	842.4900	80.8425	285.7435	127.2878
20380	98.8263	50.3800	2.6850	16.8992	33.2319
20856	98.7676	140.2700	26.0010	10.4283	33.2004
20986	98.7676	280.6633	55.9224	45.7790	48.7949
2009	98.7089	95.6167	15.6032	26.7660	21.5824
22602	98.7089	157.2800	24.4252	-3.8102	50.6844
25024	98.7089	215.6167	0.7975	238.9243	114.6886
7756	98.6502	126.9633	51.1648	4.2381	23.7070
22603	98.5915	253.8800	35.1630	89.7054	50.0036
15411	98.5915	474.4133	68.3408	133.1873	81.6197
3512	98.5329	286.7700	20.7478	145.5881	45.2875
18957	98.5329	345.4500	75.9671	115.6158	76.4210
25139	98.5329	103.9833	38.6077	18.5096	32.0832
16721	98.5329	264.7433	23.0703	123.0053	48.1139
21078	98.4742	424.6367	72.3067	135.1108	73.6978
17516	98.4155	361.7900	33.8513	135.6898	59.6643
20554	98.4155	315.7433	39.7215	108.3109	66.3005
23699	98.3568	1662.7767	293.6926	286.8568	287.2334
23698	98.3568	1872.3367	415.4765	195.1894	334.5919
25070	98.3568	510.4167	43.5974	170.2965	89.7222
18315	98.3568	379.2633	116.2721	53.7338	88.1943
20984	98.2981	1065.5900	314.8301	146.2886	136.6783
16527	98.2981	19.5000	0.1389	24.8876	9.7830
18174	98.2981	328.4900	10.9222	211.3600	48.0452
1715	98.2981	249.4267	9.5596	562.4097	242.6824
2006	98.2981	116.7333	20.3078	20.3160	38.0566
4290	98.2394	376.7400	36.3953	127.9873	76.4010

TABLE 50: CLOFIBRATE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19053	98.2394	145.8500	40.1692	32.0581	61.4902
9931	98.1808	581.4800	85.5557	198.2790	102.2310
16807	98.1808	4542.9433	787.8720	857.0080	678.7946
3424	98.1808	55.5300	0.4937	51.1832	20.7301
18316	98.1808	513.7133	128.4682	80.9484	119.2604
26051	98.1808	92.5167	12.7587	35.1585	16.9151
17599	98.1221	51.2267	0.6637	68.8484	35.9760
1728	98.0634	583.5767	66.8869	226.8001	87.7289
16768	98.0634	569.0667	106.0019	233.9901	83.5077
17933	98.0634	670.3333	75.5866	247.4554	132.9788
2008	98.0634	167.5833	68.6829	13.5658	42.7014
25055	98.0634	557.1800	199.4789	90.1653	157.8776
17353	98.0634	103.5400	6.9651	53.0758	38.4569
16767	98.0047	729.4433	124.8927	298.3743	110.9879
12158	98.0047	558.5433	204.2970	84.3025	159.0230
1410	98.0047	64.1433	31.5373	5.8281	11.6490
21372	97.9460	136.4133	30.5468	35.5675	25.3046
21730	97.9460	390.6233	64.7786	147.3605	65.6999
15927	97.9460	123.3700	5.9328	60.3285	22.8563
2007	97.9460	158.7933	80.3758	-6.5083	47.9151
18319	97.9460	220.7733	75.4024	34.7310	56.9464
14987	97.8873	1299.8400	38.2050	847.9103	209.1571
12155	97.8873	590.8167	197.1797	81.5618	165.4572
14595	97.7700	570.5133	139.2412	108.9367	95.7190
12156	97.7700	1125.6433	397.0994	196.2346	280.1831
18083	97.7113	255.6367	52.5636	44.2783	63.4666
12157	97.7113	1353.1700	527.7352	174.1501	351.3879
12364	97.7113	338.5867	4.8757	234.0912	72.0455
15247	97.6526	346.6833	61.0427	86.4852	65.8812
17686	97.6526	1339.5567	72.1853	796.6160	208.1209
1562	97.6526	132.1433	9.7431	321.5717	128.6570
1598	97.5939	185.8700	2.1898	282.2793	272.7496
18317	97.5939	140.9367	67.5328	1.9712	55.2919
20384	97.5939	279.7533	72.4739	103.3865	69.6206
15741	97.5939	476.2200	11.2392	334.4652	172.5231
17934	97.5352	699.5533	107.9980	282.9463	132.3935
14421	97.5352	233.6833	3.0466	296.7079	85.2673
1258	97.4765	38.0300	2.3123	5.8578	18.8050
20914	97.4765	609.3033	54.5163	194.0376	184.9919
14621	97.4765	358.4033	75.0661	185.6716	48.4406
17554	97.4178	1305.0867	199.3923	426.8948	265.8351
1058	97.3592	73.8733	3.4902	181.3813	114.2464
3439	97.3005	118.0433	19.2757	49.2642	18.6145
22918	97.3005	424.8267	105.6679	181.3232	64.0446
16305	97.3005	483.6100	29.7459	267.5474	116.5921
23625	97.2418	58.4067	4.6581	10.0970	27.2943
16930	97.1831	624.9333	8.5900	611.6005	337.2550
17421	97.1831	368.2733	31.6143	207.7418	59.3039
7123	99.8826	55.8400	0.9998	-4.1686	41.9738
3519	99.8239	38.1900	4.4612	490.3960	267.3276
2813	99.7653	1096.7600	24.1409	539.6765	206.7517
12160	99.4131	1389.3767	62.5809	337.6827	318.4692

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TABLE 50: CLOFIBRATE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3260	99.3545	684.5567	66.0123	198.4989	93.1318
19302	99.1784	85.4733	12.2274	16.4792	24.4911
3917	99.1197	2866.8700	148.8604	862.1701	505.7676
16533	99.1197	241.0633	1.6043	384.1025	145.8376
6380	99.0023	1430.6733	198.7886	221.7456	171.4922
6821	99.0023	284.2100	22.1768	66.1969	72.9430
22416	99.0023	674.3833	100.0630	96.8322	90.3434
3860	98.9437	896.5467	107.3461	309.0303	129.9294
5602	98.8850	928.2033	90.6587	116.3652	146.9399
6231	98.8850	57.3500	0.4115	88.3962	40.4889
16190	98.8850	835.4533	82.7975	289.6993	126.7727
21010	98.8850	1508.1900	98.9161	745.8994	218.4343
17935	98.8850	1866.9533	173.8040	678.9870	328.3465
9196	98.8263	355.3567	9.4751	216.7616	63.5039
10909	98.7676	3162.6233	151.9082	1845.7547	401.2905
6805	98.7676	68.7300	0.3045	60.1948	19.7184
19993	98.7089	764.1867	82.2544	317.9153	115.1916
2888	98.7089	3507.0500	243.6588	1116.4575	603.3123
14267	98.6502	1738.6967	234.0992	634.8278	257.1005
24070	98.6502	346.2900	3.4814	479.8097	112.9374
15582	98.5915	10463.1100	3121.3073	1627.2295	1452.3617
5887	98.5329	217.9267	84.4135	4.4335	55.7518
26109	98.5329	945.4767	284.7551	85.3862	161.4116
6473	98.4742	74.9233	2.8917	63.1931	68.6283
18962	98.4742	2826.8400	178.8931	1315.6841	508.2349
12095	98.4742	3138.2000	758.2331	534.9212	625.0790
21355	98.4155	2073.7667	212.6345	428.2977	439.9687
12215	98.4155	267.0167	104.2771	47.4720	45.7414
21815	98.4155	670.4867	21.7670	421.5964	117.4892
22554	98.4155	657.0567	180.7998	198.7374	147.2395
18685	98.4155	102.2067	9.8153	23.0781	28.2075
18891	98.4155	519.8067	137.2382	84.9752	97.4413
3662	98.3568	171.5067	1.3204	102.0769	110.4175
23629	98.2981	370.2900	67.7560	126.3809	52.7398
3926	98.2981	373.1767	20.1195	168.7968	74.3529
18790	98.2981	151.4167	0.9135	168.7307	61.3388
2841	98.2981	374.1467	90.0881	76.5498	60.3917
16547	98.2394	1048.9700	142.9137	353.7458	189.8064
16704	98.2394	807.1033	240.8412	160.1485	155.1060
21164	98.2394	584.4867	111.7308	232.2055	95.0463
14834	98.2394	181.2100	2.3390	120.6343	45.2374
4271	98.2394	253.0567	93.0423	42.6125	51.3202
18890	98.2394	1140.8500	394.7012	241.0915	191.5364
4196	98.2394	117.7167	51.3730	-10.8776	36.3011

TABLE 5P: CPA					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22412	93.5807	1127.5593	135.6596	687.4510	451.5874
11852	92.8740	63.5175	12.4266	147.6167	54.8840
17427	91.8139	288.7758	22.3737	545.7705	232.8601
21373	91.8139	62.8538	5.1620	109.8476	48.6611
21693	91.8139	350.0607	14.3228	336.2803	137.1833
10744	91.3428	11.8537	3.3892	52.7582	48.3445
15265	91.3428	698.1018	113.4264	488.8045	114.8047
15350	91.1072	140.5443	5.2490	120.3136	42.2019
17921	90.9894	57.3560	7.7306	119.3111	66.1701
923	90.8716	385.0977	58.9354	192.3747	110.1966
17304	90.7538	28.4153	4.6158	63.4429	37.3422
10743	90.4594	22.5848	3.6659	70.5827	54.3412
23249	90.2827	124.6202	36.7508	68.4783	43.9673
7395	89.8704	707.1298	29.6068	769.5506	200.0454
1466	89.6938	1789.1223	234.4692	1258.4357	627.4737
4395	89.6938	86.0050	2.8422	96.5399	29.5506
18640	89.6349	122.8850	10.9108	171.3774	37.3643
1337	89.3993	81.5243	7.0307	119.0836	32.3865
20514	89.1637	132.8838	6.4362	108.4319	29.0938
25233	89.0459	50.0303	4.3968	75.3696	44.1437
15301	88.8987	868.4626	345.0675	265.5803	172.5029
14353	88.8693	133.1302	15.6083	95.3744	34.8615
15300	88.8398	1708.3037	686.8036	635.0588	331.0936
2134	88.8104	107.1275	4.8931	116.4131	30.9380
4487	88.4570	53.1490	5.9876	48.8293	40.5729
14970	88.1037	24.3523	8.9594	59.2892	25.5903
2078	88.1037	219.6467	8.7928	240.6535	62.8268
17815	88.1037	20.4982	2.1789	31.8945	15.8000
15801	88.1037	21.2353	2.4151	34.8124	15.2621
4002	87.9859	65.3008	5.7888	99.8615	37.5638
23248	87.9270	72.9943	19.1606	39.8388	37.0968
1390	87.8681	99.8233	25.5902	54.8503	52.0856
14138	87.8681	14.1375	5.5560	28.8755	10.6648
19472	87.8092	908.1577	62.9893	734.8511	157.8265
25430	87.6325	210.8078	15.6788	220.6985	100.0435
18617	87.5736	463.2307	47.0050	348.8150	158.3572
9428	87.5147	45.7513	4.7585	64.3242	17.0707
22413	87.4558	654.5188	131.1352	465.2526	283.3242
15083	87.3969	28.7328	3.1989	20.5312	10.8788
1567	87.2792	14.9968	2.5137	28.3072	16.7925
4003	87.2792	111.5562	16.1788	187.1887	73.9261
19381	87.2203	29.7638	6.0615	52.0743	28.0603
24783	87.1614	90.4567	4.7331	95.3836	32.4994
1598	87.1319	808.9702	303.4781	278.2165	268.6375
10098	87.0436	78.7097	3.8361	87.0675	23.5298
4450	86.8669	34.3027	7.9808	57.3945	17.9199
322	86.8080	192.3548	46.0267	168.4940	180.1103
21042	86.7491	104.1663	13.6867	65.7023	35.3412
133	86.7491	116.3353	13.3287	89.0245	73.1417
764	86.7491	23.8823	2.8761	39.4303	17.5398
20026	86.7491	69.1867	4.8564	76.9460	33.5429
10509	86.6902	13.2412	4.5900	34.7968	19.6105

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TABLE 5P: CPA			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3858	86.5724	19.1113	1.9848	28.3475	11.9202
21707	86.5724	229.9568	32.3462	146.0480	82.4704
15054	86.2780	93.7728	13.6184	140.4136	41.6656
1063	86.2485	149.3288	44.9457	55.2649	36.7255
20357	85.9835	52.5280	3.9112	63.0873	33.8292
5747	85.9835	265.6762	13.2182	296.5204	71.1036
20799	85.9246	519.2567	22.8434	492.3279	111.5609
24861	85.9246	24.4133	5.7195	62.7094	42.5149
18716	85.9246	61.2885	4.2598	64.5778	24.3073
16249	85.8657	103.3362	35.5373	70.2610	64.8823
19702	85.8657	5.9595	3.9737	20.5451	18.8994
17382	85.8657	158.1082	37.8933	276.3096	104.0833
12041	85.8657	326.1800	18.7156	288.0394	73.1620
15360	85.8068	166.3585	10.1641	192.4487	61.8643
18349	85.6890	305.0238	52.5981	223.2757	92.4045
961	85.6890	150.7850	47.4763	282.6609	119.6223
16468	85.6890	502.2205	32.5844	519.8535	169.0701
5317	85.5713	588.6635	59.8739	693.5204	480.0899
15740	85.5713	114.0592	45.7053	352.6048	227.2514
9896	85.5713	767.0785	32.5212	746.0632	176.1830
22918	85.5124	134.5270	12.0650	182.5143	65.8373
19050	85.5124	79.4268	6.3404	80.9097	30.0720
6892	85.5124	65.4438	4.7027	76.2795	28.6106
4574	85.5124	265.1087	25.8586	326.7819	129.1273
11384	85.4535	21.0497	5.0728	31.7264	8.8003
17204	85.4535	869.0613	78.3640	1023.5516	269.4653
3865	85.4535	90.2352	6.2610	83.3816	28.3369
16385	85.4535	52.6325	5.2521	65.0346	24.1396
2830	85.4535	139.2768	8.3344	176.1853	42.4611
17997	85.3357	32.1122	5.3518	49.7896	24.1812
15421	85.2768	312.7872	38.4804	420.8782	91.2034
1813	85.2473	190.3855	53.4867	51.5203	63.9436
16237	85.2179	31.9697	3.7499	41.3731	21.4588
9929	85.1001	115.7317	27.7917	230.7509	125.9464
15299	85.0707	1021.7645	493.2505	391.1357	305.0813
23058	85.0412	10.2483	3.3435	20.5299	10.5735
1859	85.0412	24.7162	7.1411	44.8545	25.7765
15065	85.0412	1626.4242	51.6739	1533.4387	237.0429
25701	84.9823	62.5983	7.3026	87.8287	26.0931
17119	84.9823	36.1155	4.5865	58.4534	27.5581
1977	84.9234	144.8638	52.7220	288.7064	131.1712
16562	84.9234	85.9415	25.0402	147.7955	50.5242
13682	84.9234	379.1212	27.6433	367.5142	117.4440
409	84.8645	42.7907	3.7695	57.9804	18.0765
15620	84.8057	35.5610	6.9256	60.0280	25.6311
22822	84.7468	429.1208	51.0752	551.2440	112.0350
6505	84.7468	291.3338	28.0623	371.3828	107.5898
15186	84.7468	91.2365	7.3397	114.4785	42.6276
12241	96.0542	188.2453	27.1001	71.8070	54.5590
23538	95.6419	898.4440	418.9555	355.3445	204.9339
23104	95.5241	110.2058	21.6092	37.4120	41.0414
4917	95.5241	56.0450	3.5156	111.4324	48.2444

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TABLE 5P: CPA					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18271	94.9352	63.3168	16.0896	182.3116	80.0464
10641	94.6996	247.5530	29.4475	140.2629	58.0238
2702	94.3463	1215.2992	103.7984	818.6211	297.5347
17419	94.3463	575.1595	22.9764	396.6882	122.9476
15229	93.6396	28.8687	11.4505	-0.2550	17.4502
15553	93.4629	612.6315	72.3804	416.0397	109.1771
6284	93.4040	22.9415	3.9528	46.2227	19.0673
12482	93.2273	40.7012	2.4657	60.8810	57.2533
8132	93.2273	254.5405	10.4483	184.5154	53.7274
2809	92.9329	142.8957	27.7012	84.6133	31.1948
9712	92.6384	33.2257	7.2070	85.4964	42.9667
5203	92.6384	54.9182	3.3346	79.2144	24.9854
3356	92.2261	566.2232	18.4679	468.5973	150.6453
9277	91.8728	199.2807	17.4186	134.7743	41.9742
22084	91.5783	70.5940	6.6385	111.5554	34.5551
10090	91.5783	3.1720	9.6298	49.5668	33.2090
18574	91.5783	214.7955	11.1944	279.2698	51.9580
18390	91.4605	7.5762	3.7336	34.6263	20.8933
22210	91.2250	755.6450	103.7570	530.5854	130.2167
19938	90.8127	788.2693	98.4764	528.5212	141.7086
17618	90.6360	123.8568	4.0646	149.6395	32.8621
7111	90.6360	207.9167	15.0404	273.7780	52.0534
22416	90.5771	30.7443	8.8503	99.3401	96.7307
20620	90.2827	37.6255	4.1899	57.1850	28.6997
6454	90.1060	631.0925	48.3969	469.2270	105.7770
12731	90.0471	254.0265	58.9735	102.1312	103.9434
11446	89.9882	660.0192	85.5647	491.5924	107.3364
23350	89.9882	189.9230	9.3693	225.2275	56.0363
18235	89.8704	64.0578	6.9852	93.0946	25.2113
11502	89.8704	669.0290	48.2972	887.8573	198.8849
26064	89.8704	167.9388	6.8488	191.1827	73.7287
12616	89.7527	16.0208	3.0191	28.8799	18.9245
13129	89.6938	35.4065	2.9943	34.6713	25.5884
19995	89.6349	22.4903	5.4530	32.3832	63.5385
16088	89.6349	131.1570	11.1411	182.5977	48.5917
5494	89.5171	218.2197	33.9335	142.3331	68.6098
7414	89.4582	839.2802	82.2847	620.4140	162.1681
22415	89.3993	3778.0120	742.8499	2120.6600	1254.2668
4916	89.3993	17.5637	6.9990	53.9860	28.8164
20687	89.3404	140.5003	17.5675	238.0900	89.8516
9475	89.3404	68.9792	21.7701	175.2288	86.6938
9983	89.3404	71.8940	3.7545	94.4446	27.0007
15938	89.2815	113.2452	10.6076	158.1012	38.4451
22443	89.2815	233.1810	30.7187	166.9082	123.6661
17632	89.2226	123.3417	9.4991	85.4347	35.9971
24288	89.2226	61.4605	6.4906	39.3367	18.9636
24070	89.2226	530.1833	22.4547	478.9819	113.3202
22056	89.2226	1802.8800	91.5507	1909.3581	481.5938
14449	89.1637	15.9823	2.0429	22.8692	19.3368
16338	89.0459	170.5025	21.8708	115.0753	40.6387
16053	89.0459	709.9675	103.3186	460.3173	203.1860
6898	88.9870	80.0023	3.4948	94.1351	31.2348

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TABLE 5P: CPA				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
7724	88.9870	107.7635	9.5625	88.3169	33.5861
14589	88.9282	347.9898	32.4203	294.5916	141.4829
7224	88.8693	516.9022	35.6486	462.2831	167.1778
11732	88.8104	23.3618	5.7022	7.3092	14.2492
22453	88.7515	59.6845	12.4937	94.5985	26.7784
18156	88.7515	49.8368	3.9268	62.1932	40.3136
9588	88.6337	26.8055	9.6616	-20.3271	35.3081
23852	88.6337	82.1110	40.0930	205.3185	84.4766
15172	88.5159	493.7010	36.1240	393.6016	114.6133
6329	88.4570	2439.2237	168.3088	2293.0474	1070.4157
18932	88.4570	22.4808	6.2624	50.8212	28.2685
3201	88.3981	119.6852	11.3115	96.3528	45.2290
20553	88.3392	106.6995	23.5750	180.7033	49.8297
11525	88.3392	186.3997	16.6302	255.8760	62.4409
15577	88.3392	1522.2555	88.3661	1442.1552	441.5868
23456	88.2803	115.3662	15.6595	167.3335	45.3647
7745	88.2803	317.2235	31.0554	279.5446	136.6239
5683	88.2214	138.1932	14.3435	96.5277	32.0377
17680	88.1625	1419.5577	138.0836	1004.1005	317.1966



TABLE 5Q: DICLOFENAC				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16108	99.9413	262.6767	9.4241	130.6255	26.0670
12788	99.8826	105.2200	4.0654	12.2412	22.3975
19831	99.7653	295.4533	15.2742	107.0780	30.8440
18468	99.7653	217.3300	4.9501	66.8071	47.1252
15487	99.7066	184.3267	4.5509	92.4424	31.3691
16416	99.7066	709.8500	13.7428	276.3873	105.4039
23949	99.6479	176.0833	38.1087	58.2929	15.1933
16109	99.6479	682.0967	59.0879	296.5891	83.3425
15087	99.5892	318.6133	2.5647	185.2999	49.1941
18060	99.5892	266.0167	1.7936	173.9308	38.3627
14332	99.5892	28.7667	0.8303	84.9370	51.2555
6968	99.5305	66.6400	6.3804	154.9307	34.0216
24196	99.4718	112.6067	9.9714	18.3402	17.2368
1466	99.4718	6214.3233	1170.1373	1244.7227	551.9550
17517	99.4718	2260.9667	370.7248	546.9565	147.2898
15154	99.4131	1284.3433	191.0028	480.7099	162.7620
15932	99.4131	349.2267	45.3397	135.5688	34.0779
17884	99.4131	279.5433	29.3035	118.3868	31.6189
7602	99.4131	1032.7867	142.8627	348.3716	91.9344
1624	99.4131	54.1900	5.1738	138.4919	34.2813
699	99.3545	131.5100	6.9219	344.7215	110.0629
24195	99.3545	78.4000	22.0253	-3.9721	16.7872
6362	99.3545	181.6467	14.9433	76.0896	29.2703
11493	99.2958	320.1867	37.4460	32.9403	50.8959
9527	99.2371	6.8200	0.3297	27.5534	16.0898
10306	99.1784	2096.3300	361.0449	648.5352	224.3538
20719	99.1784	338.1467	84.5782	99.3377	30.7008
17885	99.1197	725.6833	136.3395	247.3416	69.8406
20735	99.1197	2313.2267	163.4511	1011.4493	340.3786
19326	99.0610	359.8633	58.0325	149.9240	42.1937
16119	99.0023	19.9767	0.2359	57.3351	35.3164
18327	99.0023	166.8700	25.9027	51.8620	21.2571
20600	99.0023	35.6167	5.7810	212.9031	192.2030
22739	98.9437	237.2733	14.8159	115.1230	33.3217
18469	98.9437	112.4967	13.9007	33.4491	17.5752
23950	98.9437	236.4933	43.1258	86.7057	22.8829
1571	98.8850	1172.5900	51.5007	575.1040	170.4750
16367	98.8850	169.9700	14.5836	623.7902	286.8608
21103	98.8850	389.5233	60.7115	177.3793	49.3847
5655	98.8850	91.5233	10.3413	22.7893	21.0442
1973	98.8850	73.2533	27.3053	264.5682	75.3572
25652	98.8850	104.4100	44.6306	18.0562	11.2892
24536	98.8263	3684.5567	721.3126	1387.2326	425.2253
24665	98.8263	557.3000	152.8151	107.6067	74.9965
5656	98.8263	96.8667	12.7698	39.2514	12.2985
20443	98.8263	275.0333	28.2966	135.9470	37.3178
24885	98.7676	3258.2800	68.1985	2076.6222	502.2023
7096	98.7676	156.8833	16.3696	58.3153	24.0875
25260	98.7676	199.5767	39.2803	63.9379	27.9105
1598	98.7089	2261.2200	522.0235	274.9718	244.7970
11494	98.7089	949.9200	211.0720	167.7890	137.5266
11153	98.7089	105.8933	13.4936	277.4587	83.7212

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TABLE 5Q: DICLOFENAC			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21102	98.7089	220.8600	56.5936	61.6536	23.1949
765	98.7089	-8.6333	4.7498	22.1721	14.7762
25691	98.5915	3766.8633	181.3287	2251.5785	450.5015
20803	98.5915	551.2900	1.3097	522.7399	128.0870
20994	98.5915	345.5267	24.6122	158.5445	59.3910
25313	98.5329	442.6467	160.0461	183.8938	63.1301
1058	98.5329	29.9100	12.7890	181.5361	114.0689
19781	98.4742	9.8767	0.5561	36.4140	25.2147
18069	98.4742	141.5800	37.5591	27.6363	24.0765
16825	98.4742	196.6367	63.3572	45.4445	23.1327
18647	98.4742	1543.4200	350.1783	442.8530	210.3097
21707	98.4742	480.3600	100.2809	145.4618	80.0949
3512	98.4155	276.2100	16.8023	145.6253	45.4029
11210	98.4155	122.4367	19.3103	37.5813	18.6018
2367	98.4155	104.8400	7.6764	207.7478	53.5412
20734	98.4155	1981.3667	106.5315	965.1727	333.4310
22903	98.4155	323.6200	8.3818	206.5544	53.3563
15281	98.3568	1092.1567	200.9835	544.4340	173.1754
17657	98.3568	116.9633	37.5118	24.8545	25.6083
20601	98.3568	97.5500	21.0673	381.6790	303.8763
463	98.2981	83.1433	7.4122	41.1223	13.3364
18578	98.2981	37.6767	5.2853	137.7602	102.2865
23282	98.2981	903.4667	161.1567	432.6129	89.8193
15933	98.2981	383.1667	73.4013	173.1382	42.1212
23274	98.2981	1319.6833	39.2758	947.7594	180.8513
11152	98.2981	17.4733	6.9543	96.9594	45.7025
1858	98.2981	296.3200	109.0061	43.1450	208.6092
1869	98.2394	80.2433	14.5395	703.9560	394.0265
23248	98.2394	214.3833	84.2552	39.4577	35.4542
9254	98.2394	45.0433	5.7977	104.3503	30.1113
8097	98.2394	1960.3533	223.1961	1036.8306	273.1629
18726	98.1221	58.9367	6.6889	194.6925	85.2564
17634	98.1221	-9.0567	5.1344	83.4851	63.7521
1070	98.1221	73.6467	32.0118	-2.9400	15.5261
17916	98.0634	135.1533	16.6003	63.5390	19.5113
659	98.0634	98.8300	10.1501	43.0532	16.6373
8829	98.0634	1723.2833	319.9892	775.8092	221.8899
3131	98.0047	31.7667	3.7346	102.0925	52.6305
8592	98.0047	70.3300	8.6944	153.6617	49.8128
8898	97.9460	495.6567	36.2144	872.7606	191.6260
19942	97.9460	318.8033	56.2034	146.0960	41.9082
13543	97.9460	582.3767	98.5960	320.5599	69.7998
25513	97.8873	3112.2933	1717.2420	754.4806	282.0908
26033	97.8873	134.2867	37.6508	13.2036	33.0809
18430	97.8873	291.5600	122.2924	71.9104	41.8628
17378	97.8873	630.6667	215.8998	218.2343	67.5782
2744	97.8873	643.8033	187.0776	314.1227	83.8839
15189	97.8286	11711.3967	1685.4384	3855.1649	2027.8392
8062	99.8826	220.4833	11.5721	501.1573	93.3942
7584	99.8826	46.9800	40.9716	568.5319	306.3005
9259	99.7653	53.6733	2.7703	13.1555	14.6680
16756	99.7066	1286.0133	30.7180	665.5618	128.7828

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TABLE 5Q: DICLOFENAC				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10308	99.5892	2296.4000	118.4885	1175.1734	275.6680
6005	99.5892	591.2200	25.7498	1475.1649	307.9363
16063	99.5892	272.2167	22.5764	97.4105	49.4760
18417	99.5892	1076.9500	153.9791	333.7123	152.3269
8167	99.5305	765.0067	9.2115	433.4956	172.4484
15900	99.5305	923.1633	56.8189	426.9497	90.3111
23320	99.5305	30.4267	26.3660	293.2477	93.6614
10446	99.4718	174.9900	4.5640	56.4811	48.4426
17887	99.4718	268.6433	17.8188	551.7264	116.6793
6392	99.4131	738.0133	69.8306	327.1317	71.4237
17768	99.4131	1571.4367	238.8069	598.5951	140.7505
18565	99.3545	58.2767	9.9327	268.1059	110.9410
23824	99.2958	731.9400	73.1746	282.7541	85.4782
23162	99.2958	32.0067	12.8015	420.7301	302.0449
13461	99.2958	236.4100	24.6253	27.3512	33.6029
16905	99.2958	1.3467	1.8068	59.3420	29.6663
11502	99.2371	394.1267	30.2032	888.0548	197.2449
24338	99.2371	126.2800	3.8211	238.9567	49.2417
3875	99.2371	229.2767	0.7414	176.4909	42.1222
23370	99.2371	2.9867	3.6322	137.0977	74.6839
2750	99.1784	4545.3433	1188.5866	1317.4974	527.0546
1506	99.1197	1341.1133	401.1156	425.0811	88.1039
4952	99.1197	3111.8967	570.5449	930.6166	350.7298
19271	99.1197	633.3433	35.5834	278.9459	94.9226
16253	99.1197	39.6467	37.9096	290.2083	79.6585
16	99.1197	34.8900	30.3617	329.5752	130.2743
23159	99.1197	840.3633	738.5439	566.6281	277.2732
23076	99.0610	686.8900	67.5499	304.6201	87.1310
13029	99.0610	74.7267	4.0795	185.9500	64.3329
8775	99.0610	183.4767	19.8248	77.4781	23.7123
11465	99.0610	-1.2800	20.1586	154.6933	79.1419
6479	99.0023	76.8267	7.8311	422.7819	208.9902
24375	99.0023	945.6167	40.8373	513.2084	155.0174
2296	99.0023	130.9300	14.2069	478.2559	182.7008
18650	99.0023	8784.9833	2859.2117	1791.0108	833.1561
2639	99.0023	-2.7933	6.8981	146.4013	77.7145
18696	99.0023	46.5533	40.5579	236.0620	58.1105
23015	98.9437	88.9733	18.4162	9.0373	22.6441
18996	98.9437	75.5933	11.1745	206.7382	65.4538
6615	98.9437	-28.2467	9.9820	74.8563	77.3219
5157	98.9437	2.3333	2.1808	39.0753	17.7202
9796	98.8850	218.1300	2.4483	123.7953	56.4548
18649	98.8850	579.9267	165.2774	119.2347	73.0703
14388	98.8850	1.5500	9.3881	121.0299	48.5354
17647	98.8850	18.5067	3.1696	57.5042	20.2955
21766	98.8850	22.8967	22.9000	152.0058	48.1511
23369	98.8850	-20.3967	18.0798	131.7584	80.3646
24229	98.8263	219.3200	55.1317	1969.0252	1246.5959
4179	98.8263	615.1967	330.3182	257.0174	78.2319
9546	98.7676	119.3600	2.3157	189.2764	48.5388

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TABLE 5R: DICLOFENAC				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15997	98.0588	826.0340	59.0069	288.2524	215.5546
4843	97.3529	171.4200	5.7703	270.8865	61.1961
21423	97.2353	767.1960	3.3008	837.8807	180.4670
16982	97.0000	5283.9420	1607.9535	1604.3032	936.2529
15995	96.5294	554.2340	54.8668	230.5582	172.2650
3562	96.4706	31.7660	3.2035	15.2120	11.6375
6535	95.5294	244.6100	5.2007	319.3652	65.6488
23716	95.3529	125.2560	20.6795	69.9142	23.2349
16825	95.2941	105.0640	30.7344	45.6274	24.5193
409	95.1176	49.8340	0.7321	57.9211	18.1022
15642	94.7647	1667.7720	237.8846	928.0718	322.7991
15437	94.3529	38.3060	9.6020	15.0678	13.0954
20714	93.9412	193.3060	14.3504	150.3837	193.3552
803	93.8824	1490.3960	277.2356	698.1026	358.7400
15956	93.8235	79.6120	5.1388	132.9290	46.4166
25701	93.4706	50.7440	5.4983	87.8688	26.0119
16844	93.2941	535.9560	20.7578	794.7663	275.2608
4647	93.1765	110.5720	15.7483	213.8609	64.1971
619	93.1176	34.8560	4.2013	98.4216	66.1255
764	93.1176	23.5260	1.3006	39.4141	17.5368
15050	93.0000	266.1380	7.0540	291.6265	64.7396
7898	92.9412	4403.5940	356.9157	3210.8833	1139.2300
22646	92.7647	128.8320	7.2978	171.8450	65.2188
16901	92.7059	81.2320	14.8642	166.2463	71.1474
24423	92.5294	28.0960	5.1840	59.9372	32.5082
1285	92.2941	57.0920	6.7314	103.8595	35.7669
16683	92.2353	215.6160	12.7928	293.6630	83.3773
18078	92.1176	13.9440	5.6452	49.8211	33.5197
17148	92.0588	4046.1240	582.7279	2107.7443	1194.3925
20467	92.0588	34.8760	3.3449	11.9471	20.7112
1797	92.0000	1285.7880	256.0118	582.0526	480.9576
804	91.9412	1677.1100	257.0225	990.9331	375.1230
15115	91.9412	46.3800	1.7899	59.9389	19.0711
1727	91.8235	803.9620	121.0124	423.6740	287.1111
16836	91.4706	90.4640	5.8017	124.3075	27.2421
354	91.4118	851.4500	161.0263	511.2026	322.4322
21980	91.4118	132.1880	8.0094	185.6866	49.5955
24205	91.3529	35.0700	11.6433	73.0909	23.8926
24707	91.2941	270.2980	42.9794	179.3491	101.2649
23213	91.2941	9.7320	3.5110	30.4460	15.9136
2012	91.2353	53.6220	10.9376	116.7216	43.8181
18209	91.2353	123.6600	8.4619	173.5175	51.8796
8267	91.1176	232.4960	42.0362	239.6952	294.4274
1031	91.1176	15.3760	2.7154	32.8070	15.5936
20849	91.0588	407.9500	19.8822	521.9688	141.6467
19411	91.0588	42.3540	1.9420	36.9832	14.3037
17147	91.0000	3311.7880	514.8764	1697.0607	964.8008
21800	91.0000	41.5840	11.7546	84.7011	26.9030
7459	90.8824	2186.5640	351.2291	1490.9951	427.3068
20082	90.8824	701.9300	82.3412	453.9414	166.6937
2013	90.8824	8.5880	7.2691	53.8190	35.6289
20700	90.8824	3895.1080	214.2973	3023.2394	1101.1035

TABLE 5R: DICLOFENAC			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs.			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
8268	90.7647	445.5080	130.0038	385.7590	495.4453
11153	90.7059	196.8420	11.6490	277.3274	84.2096
1804	90.6471	9842.6460	1999.5708	6177.5933	2275.0163
8266	90.6471	2769.4120	236.9014	2077.0665	956.9428
25681	90.4706	6266.0780	588.7647	4419.9264	1287.5265
18142	90.2941	4775.1940	826.5869	3111.3518	1001.5151
8269	90.2941	373.3020	96.8474	335.8584	373.0083
21905	90.2941	41.3340	0.9663	48.1480	12.0710
16274	90.2353	5973.9420	591.2444	4181.5126	1399.0804
21115	90.1176	113.6260	44.0196	40.2685	45.8280
1973	90.0588	157.9380	26.0719	264.5202	75.8486
23368	90.0000	10.0920	4.3366	42.3814	35.1663
10499	89.9412	40.1980	2.0628	34.6105	22.6457
1801	89.8824	136.5820	12.9346	101.4897	28.4994
16210	89.8824	126.2400	15.5000	195.8952	51.3143
17374	89.8824	141.4000	10.6360	198.2308	49.9360
4010	89.8235	1750.3140	481.7182	779.0223	546.1410
16963	89.5294	9365.1780	1170.0742	6138.1053	2562.4978
15367	89.4706	103.8940	51.0395	228.4754	75.8962
10660	89.3529	84.7740	9.9643	62.6999	19.8069
16275	89.3529	6163.8140	672.3289	4309.8834	1441.4075
20713	89.3529	166.1120	22.0551	132.8860	240.9176
5666	89.3529	65.5660	6.5915	102.3993	39.6963
1141	89.2941	149.5540	20.7324	224.4319	56.6984
22726	89.2941	566.6960	17.2844	579.9561	134.1612
16871	89.2353	8.5760	3.1918	23.3039	13.3647
19469	89.1765	186.6180	15.0968	137.1066	41.2378
18403	89.1176	25.5880	1.9054	41.1171	37.8502
24113	89.1176	40.6980	5.1053	24.6835	17.7599
3549	89.0000	253.3740	30.6081	359.6218	79.4862
15410	88.8235	146.7280	18.7641	207.8692	49.0726
13339	88.8235	265.7660	30.8467	377.7149	87.3945
14185	88.8235	209.2080	19.7348	276.2619	178.9361
23361	88.8235	186.0120	8.4288	176.1679	76.4973
20930	88.7647	-50.5620	72.3773	68.1456	84.8508
1805	88.7059	3751.3400	460.6071	2687.2374	890.1063
5319	88.7059	26.2060	2.0242	33.2407	14.6119
17314	88.6471	151.6320	40.8978	85.4482	48.8598
16681	88.5882	91.5760	21.1308	209.2707	118.7555
13480	88.5882	217.0060	20.7764	326.2735	98.8945
17815	88.5294	17.1920	2.4698	31.9005	15.7794
16013	88.5294	71.7880	3.6470	57.0533	15.0736
21109	88.4706	25.9380	7.6953	52.6209	20.2821
16806	88.4706	31.5800	5.9544	16.0287	19.7782
25730	88.4706	261.5740	34.1185	185.2594	114.8378
3438	88.4118	58.3800	17.2085	137.4567	59.3245
18450	88.4118	535.6320	17.4988	561.9067	125.5953
6499	88.3529	20.3440	3.4192	8.1612	12.9363
3806	97.8235	130.8280	1.2853	115.6202	49.6683
12698	97.5882	829.2720	429.5174	91.4250	147.4799
5952	96.4118	615.5480	66.1849	288.8192	163.2359
5953	96.0588	864.8480	150.7258	337.0063	167.7559

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TABLE 5R: DICLOFENAC					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21561	95.7647	118.0140	36.1715	41.4323	28.1473
3311	95.6471	46.5060	5.0135	18.0603	19.6836
24163	95.4706	678.1280	47.5902	428.0980	132.0047
3759	95.4118	485.5780	59.8923	270.6568	87.9803
11256	95.4118	1.2920	6.8877	51.3665	26.3472
23650	95.2353	221.8460	21.5557	416.0473	135.5475
22666	95.0588	423.1080	85.2730	185.4106	115.1999
14561	94.9412	311.8480	36.7591	194.2015	53.7826
10367	94.8824	120.3600	18.2285	69.4403	24.2994
8522	94.8824	342.8440	75.3336	146.7467	75.4350
22995	94.7647	84.7320	18.8671	314.3560	210.7030
21395	94.3529	34.0540	2.6598	19.9917	11.0623
22667	94.3529	382.1560	73.1890	177.7571	104.2186
24336	94.3529	133.6900	6.1743	94.3027	38.3550
13370	94.2941	-2.8540	11.4398	50.3266	28.4989
2383	94.0588	125.8400	16.2193	73.4904	27.6864
8224	94.0588	79.6840	14.1875	40.8168	33.0448
18565	93.9412	142.0080	15.7648	268.1071	111.3459
20036	93.8235	42.4280	4.3887	23.2912	17.2434
15500	93.6471	347.3040	10.2662	450.1255	95.1827
22535	93.6471	1107.8800	109.9265	745.1345	217.8967
806	93.5882	5143.5800	584.2847	2834.4181	1194.4464
23858	93.5882	259.4360	21.1028	175.0844	65.7803
3375	93.5882	743.2500	243.2110	368.8931	188.4166
19782	93.5294	446.6920	87.8661	189.6888	130.8051
7503	93.4706	73.4260	6.9356	21.7775	39.1796
6060	93.3529	143.4620	14.0556	239.8987	65.2990
13097	93.3529	327.6080	33.0708	59.2905	176.6047
13634	93.2941	4970.6460	458.2785	2856.1650	1040.4350
7054	93.2941	106.2580	13.9637	46.5483	42.6082
23657	93.2353	76.4320	14.6981	173.5696	67.4407
1924	93.1765	607.2200	84.7294	376.3173	109.8602
3641	93.1765	151.6080	14.6941	100.2653	52.0244
2102	93.1176	201.1640	19.4746	391.7164	166.6497
10767	93.0588	131.8180	5.7552	92.3528	41.6437
26149	93.0000	574.7160	156.5629	225.8444	361.2938
8153	92.9412	35.6380	9.9614	75.1321	22.8981
14803	92.9412	102.7480	7.7188	64.0599	30.1321
17722	92.8824	358.4340	19.4289	260.7384	65.6894
1923	92.8824	556.0920	53.0151	347.1122	159.1480
24604	92.8824	169.2980	25.8446	79.5402	72.7852
22876	92.7647	171.1600	31.9013	104.4064	35.5726
9000	92.7647	358.8980	25.7662	252.5714	58.5053
5977	92.6471	186.0860	6.9527	151.7047	39.6018
4703	92.6471	572.1520	26.7575	586.9418	317.0299
11636	92.5294	106.6080	38.9173	-7.2448	93.3543
22276	92.5294	26.7380	3.3845	52.4777	24.4458
13666	92.4706	27.2520	7.5626	4.3979	14.9311
3542	92.4706	92.9880	6.7277	63.7227	26.3338
8062	92.4706	361.0980	25.2365	500.9905	94.3565
3598	92.4706	41.2500	12.2239	18.3980	14.5737
19591	92.4118	127.9460	16.2099	240.7742	81.1001

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TABLE 5R: DICLOFENAC			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21600	92.3529	58.5040	8.8910	34.1521	46.0072
19383	92.2941	80.7100	29.2760	141.6222	32.9633
7460	92.2941	10091.8120	685.0072	6851.4357	2367.8821
18230	92.2353	88.4940	4.8816	83.5810	34.4264
4521	92.2353	204.0200	16.5341	304.7366	86.4336
8512	92.2353	28.8380	6.9534	7.9364	14.0049
14937	92.1176	17.5720	10.5584	61.5092	29.7618
26218	92.1176	496.4460	34.3047	362.3677	165.2483
16128	92.1176	347.6820	114.2463	287.0447	64.8866
18222	92.0588	17.6340	2.8184	29.1755	22.5905
11367	92.0000	183.7920	11.0895	266.9373	72.3475
10315	92.0000	298.1620	38.2427	189.7138	61.3591

TABLE 5S: DIFLUNISAL					
Timepoint(s): 6, 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12070	95.2353	63.3516	5.0048	35.0426	17.6927
12788	94.6471	46.2570	6.9659	12.3693	22.9425
19675	94.1765	31.8754	2.3512	13.5278	16.0099
17541	94.1176	2527.1340	54.1627	2946.1637	1078.7944
11984	93.9412	35.2354	4.7433	83.4905	35.4211
20767	93.8235	492.4424	127.4043	260.7840	119.1007
24453	93.8235	15.1770	4.1172	39.2706	18.4295
14822	93.4706	548.9346	84.6067	333.6542	105.0370
16346	93.4706	265.5758	34.3532	160.5167	65.9398
20359	93.4118	26.1094	2.3408	52.2256	28.0084
18192	93.3529	33.2954	4.6936	17.8724	10.5658
7064	93.1765	2238.6596	142.9295	1579.0463	406.6310
1045	93.0588	108.3092	6.4735	84.5083	27.3299
21015	93.0000	2880.4512	289.3375	4929.6664	1485.1979
13683	92.8824	186.9748	5.8468	236.9892	54.6557
21097	92.6471	824.7478	51.3347	691.8976	479.2111
14066	92.5882	65.7756	4.1972	100.2692	28.4131
24490	92.5294	24.7240	4.3812	55.3548	25.9396
16697	92.4706	16.1002	0.7866	25.2675	14.3291
17604	92.4118	136.1668	12.7776	90.9499	28.4317
17530	92.4118	62.1444	17.8968	148.7118	65.5848
13646	92.4118	2003.4206	90.0018	1617.4579	287.0186
15052	92.2353	460.7888	111.2337	894.1052	251.8300
21866	92.2353	110.8446	6.8622	169.9155	56.8940
16947	92.2353	212.5984	20.9935	346.4096	139.8368
8317	92.1765	183.1958	5.7401	244.3411	102.2489
1546	91.5882	66.3914	5.2118	108.0682	45.6862
20192	91.5294	18.9402	1.3924	32.9884	19.3228
1567	91.4118	7.9818	2.1125	28.3328	16.7478
16257	91.2353	94.5538	21.5005	213.1527	82.5703
25405	91.1765	59.7474	8.9092	51.5183	37.9142
2632	91.1176	356.2594	47.7952	269.4014	51.7615
18369	90.8824	33.8492	2.8943	43.8158	39.9268
15667	90.5294	1660.9784	168.0180	2687.4202	869.5041
15011	90.4706	205.2998	12.0578	170.5749	60.9648
1288	90.4118	7.0232	13.9453	42.7035	21.7840
1583	90.4118	165.1708	15.3889	122.6115	42.8267
20653	90.4118	18.0720	1.4335	29.3127	18.8056
818	90.4118	1273.8784	241.4537	2884.3043	1768.6393
19650	90.3529	79.6952	27.7541	16.8221	41.5008
20939	90.2941	759.2784	99.9913	545.9102	181.2209
4439	90.2941	130.2570	39.4109	243.7727	73.9240
1311	90.1765	37.8100	3.0168	28.3408	15.1356
18501	90.1176	325.2736	40.7792	177.8471	108.1244
17271	90.0588	32.3204	4.2980	22.3272	9.0356
11755	90.0588	345.6334	91.9849	685.7039	303.2027
1623	90.0000	63.1434	2.8573	53.9278	13.9368
24545	90.0000	33.6966	1.9916	37.2921	19.1178
15203	89.9412	309.0782	16.7837	254.9091	58.6951
11905	89.9412	27.1464	4.7626	57.9067	27.2194
15069	89.8824	632.2906	23.1296	766.1136	349.0963
13499	89.8824	69.0778	5.9918	86.7119	55.1050



TABLE 5S: DIFLUNISAL					
Timepoint(s): 6, 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14964	89.7647	134.4992	9.5713	296.6224	224.8588
180	89.7647	17.4974	1.5899	20.5597	14.8596
17061	89.7059	173.1178	28.9576	270.6493	69.5579
25168	89.6471	19.7000	13.0775	23.7797	9.1425
24253	89.6471	13.2066	7.7438	36.5161	16.0792
9183	89.6471	32.7810	2.2456	25.8186	17.2458
811	89.5882	47.0396	12.5280	93.4614	41.9238
19	89.5882	905.6292	48.7496	711.4101	213.6619
18911	89.5882	17.8428	1.3425	27.0422	13.3972
21951	89.5294	209.3348	38.2333	139.5234	49.5815
4307	89.5294	31.0162	10.9186	8.0462	15.4679
812	89.5294	26.1996	6.5135	54.7962	23.8784
2078	89.4118	153.0102	29.7976	241.0208	62.4225
12859	89.3529	51.0708	3.2438	72.9180	39.8200
15807	89.3529	23.0504	3.8111	48.5270	24.0075
24707	89.2353	84.4012	12.4593	180.4426	101.2768
194	89.1765	25.5176	3.1026	39.7126	13.1077
19190	89.1176	543.5510	40.8529	714.8037	240.5928
23044	89.1176	80.0686	8.2207	121.8296	36.5878
3847	89.0588	55.8592	9.0776	37.1163	15.8048
9090	89.0588	27.4382	3.6594	32.3384	55.0390
19962	89.0588	138.6404	22.5334	234.5901	76.1791
21665	88.9412	147.4540	15.4606	101.7982	37.5863
15309	88.8824	23.3434	4.0006	12.8790	8.3255
11153	88.8235	184.1906	19.2511	277.4018	84.1262
3446	88.7647	55.2722	7.2078	37.8205	16.0156
21794	88.7059	22.3216	6.9784	51.9165	27.7184
820	88.7059	385.3910	127.1368	1033.1495	717.4806
15648	88.6471	94.2888	10.7951	69.1923	20.3168
22412	88.5882	908.1716	183.6259	689.2592	452.4591
352	88.4706	285.9932	68.3947	184.7932	129.1681
18561	88.4706	105.3094	13.8563	71.0405	25.3075
15185	88.4118	31.5366	8.0907	10.9244	20.9318
17494	88.4118	38.4202	2.4226	29.8873	9.0877
13486	88.3529	38.1386	2.6642	25.4303	22.4339
4524	88.3529	95.4054	8.4959	71.2510	30.9057
15188	88.2353	126.6662	19.8373	181.9760	42.0077
626	88.1765	172.1156	52.0451	89.1758	75.1153
22408	88.1765	17.7466	25.0260	78.2545	40.7207
4178	88.1765	59.8510	14.8219	178.4091	126.0765
2008	88.1176	208.7984	168.8219	12.9610	39.5414
5837	88.1176	38.1172	19.8903	90.2958	41.0217
14633	88.0588	228.8268	98.3976	491.2366	204.9908
347	88.0588	95.5734	13.0116	63.6631	23.0370
16081	88.0000	1888.0332	261.0421	1171.0972	591.5437
7636	88.0000	45.3042	2.2922	43.3031	14.6011
13283	88.0000	65.6356	17.0042	145.4605	71.8438
2007	87.9412	205.4314	187.9590	-7.1716	44.5153
9192	98.7647	2006.9858	106.7482	839.5277	438.3161
2964	97.8235	186.8372	6.3988	112.5089	37.5268
8759	96.9412	335.2268	48.8306	95.7051	144.5517
5695	96.7647	85.4190	24.4462	236.9429	76.2305

TABLE 5S: DIFLUNISAL					
Timepoint(s): 6, 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17935	96.5882	1553.6122	280.9959	678.0350	329.0066
20570	96.1176	3.0714	7.6880	50.0833	29.2768
7382	96.0588	-9.4288	3.9608	45.5191	45.8034
8164	95.8235	200.1424	29.3881	106.9377	42.4610
19200	95.7059	334.9614	15.0501	228.4794	85.1417
14763	95.4118	1512.2030	257.3450	548.1563	558.9338
7837	95.1765	38.8110	18.2225	120.0461	40.8680
19359	94.8824	288.3560	26.4518	551.8001	192.8928
5143	94.8235	20.7216	3.2214	71.9196	51.5329
26190	94.8235	22.8532	28.4634	-173.1287	115.5066
7136	94.8235	266.0740	42.8303	154.3756	45.2995
4067	94.7647	579.8630	53.5513	344.0955	146.0932
18562	94.7059	1232.3766	112.9914	759.0060	238.7734
5440	94.7059	189.3476	6.6274	141.9659	43.0389
22455	94.6471	38.8196	3.4435	-53.4345	98.2019
15078	94.6471	37.2582	5.4201	11.1867	20.3680
21806	94.5294	51.0342	5.9769	98.5681	34.3375
21911	94.3529	321.7406	30.2190	185.6694	73.3081
2340	94.1765	259.0990	127.6402	-70.6144	152.6079
13382	94.1176	343.2174	13.1956	220.5227	94.7822
18800	94.0000	632.8844	104.3312	258.4023	185.9765
8177	94.0000	94.9558	25.7513	203.9911	67.6946
6005	93.8235	957.4342	112.1538	1475.0905	310.1174
18660	93.8235	124.0768	11.2236	72.3478	48.3039
6027	93.8235	26.0710	2.4110	40.5009	39.0253
16027	93.8235	303.0852	74.2470	183.4181	55.7070
10315	93.7647	123.6040	5.3365	190.7406	61.7590
3710	93.7647	641.5420	110.3017	340.3629	340.9695
23589	93.6471	320.1448	13.2548	253.7553	46.7819
14911	93.6471	261.5928	21.2739	147.7991	78.6971
6567	93.5882	506.7868	48.9622	306.1224	127.7585
19138	93.5882	84.3866	3.2953	52.5895	33.6356
4903	93.5882	89.9200	6.4695	102.3104	76.4568
11467	93.5882	69.7822	12.4648	166.2600	62.8517
15398	93.5294	152.3436	5.7683	197.7754	68.0217
19569	93.4118	17.0946	2.4935	34.3102	35.5661
1397	93.3529	142.4742	10.6471	92.4016	31.1975
15113	93.3529	150.9540	5.2513	197.0510	46.9189
15034	93.2941	269.3444	12.2565	202.8800	58.5584
22372	93.1765	511.6662	63.7172	306.7661	131.2313
13175	93.0588	67.5620	10.5579	127.5979	41.2576
7316	93.0588	141.9784	2.9108	140.7572	44.3238
10984	93.0000	48.2624	13.8706	177.1566	111.5750
22998	93.0000	543.5000	31.0215	739.8577	163.0330
10084	92.9412	120.0752	16.1757	215.0305	77.1877
14396	92.8824	156.4794	18.7109	100.9410	27.0645
21514	92.8824	23.6656	2.8412	48.4436	24.5171
15452	92.8235	131.1638	6.2968	193.9633	70.2376
24214	92.7647	240.9492	60.2774	140.6843	56.2277
3345	92.7059	4.4426	12.1618	76.4941	47.1224
3153	92.5882	76.8642	6.4521	38.6780	34.0635
19014	92.4706	494.8382	29.3428	329.3718	113.8280

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TABLE 5S: DIFLUNISAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 6, 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
26245	92.4706	11.6822	3.1375	31.3113	37.2043
2688	92.4706	186.2738	5.5836	167.7769	47.7157
2270	92.4706	30.8320	5.7131	-23.4557	43.1378
21469	92.4118	128.1122	35.0018	355.6238	159.7565
22619	92.3529	568.4140	53.0158	417.8284	89.9944
7916	92.3529	368.0892	15.3328	374.1506	164.5796
4882	92.2353	34.9422	1.8540	34.8439	24.7268
26120	92.2353	6.9288	2.2022	28.8906	31.8223
22987	92.1176	103.8536	26.3785	222.3339	71.0458
7597	92.0000	32.7838	3.0133	58.5247	25.8125
24144	92.0000	61.3754	10.6895	136.7466	58.3981
21631	91.8824	732.2908	83.7954	494.0285	120.7966
17320	91.8235	295.6072	42.3511	174.3459	87.8626
10550	91.8235	284.6434	16.8039	212.8800	63.9879
4797	91.8235	77.4712	3.4307	95.6796	38.8925
13153	91.7647	159.0886	6.3694	143.8821	58.0508
4949	91.7059	117.0008	10.4755	206.6451	85.5300

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TABLE 5T: Direct Acting			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1460	78.0061	2772.0344	418.3982	2081.3470	701.9019
6671	76.6028	163.6525	47.4216	112.8390	48.9860
25666	76.1350	318.0080	101.8883	197.6342	114.2224
1588	75.6135	711.0096	276.6873	437.5033	257.8769
445	75.5291	150.7079	57.7930	87.8718	47.9790
1970	75.3221	345.2053	143.9769	193.8149	107.1326
25491	75.3067	61.9489	25.2396	42.1772	19.9596
15123	75.2607	537.0802	364.1056	161.0001	232.5289
23783	75.1534	293.2268	91.3369	391.6374	94.2907
1300	74.0644	247.7533	88.7628	147.9501	90.3450
24518	73.9954	496.1655	111.5237	617.0582	147.8008
338	73.9494	40.8700	44.6628	-1.3243	35.0846
15126	73.6273	2568.6575	635.4246	1855.4425	625.2933
17090	73.5046	142.6248	25.4290	112.7600	44.4131
25747	73.4279	2805.3986	700.1920	1999.2969	728.9757
444	73.3589	131.8101	46.3733	78.5789	38.1213
18085	73.3589	69.0946	53.9444	9.0098	42.5357
8384	73.0675	156.0429	112.0438	58.7472	71.0046
446	72.9064	132.3679	47.0524	72.6773	38.0900
25729	72.8451	155.3433	84.0500	83.8447	62.7639
25676	72.7837	34.9856	26.3741	14.4144	19.7638
1187	72.7377	69.3701	21.3655	42.9265	27.2544
3202	72.6457	1131.1437	227.5498	894.2170	199.8777
21238	72.4463	172.3199	71.4810	102.9537	72.0320
8386	72.3926	417.7814	272.1282	179.6393	184.2552
25746	72.3543	30.4264	13.9522	18.8831	10.1956
1063	72.2929	95.1991	44.2919	53.9975	36.1768
6891	72.2853	450.0432	142.9820	627.8129	164.8870
13348	72.2699	61.0085	28.2661	34.4595	24.9177
18539	72.2623	287.0815	93.6075	188.8673	106.8342
25203	72.1702	82.5551	26.3105	56.8873	32.7829
6377	72.0322	1054.3565	423.7833	709.7934	404.0542
16565	72.0245	51.6099	25.8426	34.4237	18.9921
11940	72.0245	35.4292	12.5390	51.7935	16.0967
19321	72.0015	253.1205	49.9506	300.8031	52.5854
23000	71.9939	32.4504	7.3248	42.7463	13.7565
4178	71.8865	282.6365	126.9271	172.5663	123.7993
16248	71.8788	355.5179	240.7884	143.4115	138.8458
1409	71.8712	89.6070	32.3546	116.9523	39.2719
19712	71.8482	14.7985	9.9706	29.0985	16.9052
1311	71.7868	44.8013	17.3852	27.5910	14.5318
18538	71.7485	138.5459	59.8052	87.6643	62.5910
690	71.7025	84.0918	40.2324	54.1355	41.7830
19391	71.6488	544.2599	183.6326	397.8064	202.7880
25730	71.6028	263.6364	114.4060	181.8809	113.3837
15291	71.5798	190.8637	73.3399	129.8885	71.2060
25689	71.5644	3130.8667	638.6884	2421.2255	665.8935
3879	71.4954	1101.2675	368.1483	1460.5049	430.1355
5358	71.4724	151.8394	61.6605	90.5235	48.9000
1514	71.4647	192.2563	56.7415	144.9331	64.6090
1323	71.4110	218.6332	163.9493	76.3589	126.3460
25743	71.3574	294.1714	128.1386	186.1187	137.7854

TABLE 5T: Direct Acting			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25087	71.2960	64.2700	54.2143	42.9798	66.5951
25608	71.2883	77.4945	38.5944	48.8664	34.0944
18277	71.2500	1640.0467	268.3997	1383.9259	325.8152
1969	71.2423	110.2643	77.2067	49.4783	44.7815
19745	71.1656	109.5278	44.7146	154.0061	53.9977
7927	71.1120	25.6238	14.9896	46.7257	28.2804
22661	71.0199	672.9903	143.9379	832.4725	170.5368
23129	71.0123	59.6918	17.8133	41.4435	20.3097
23037	70.9586	43.2596	25.2384	24.2986	17.6043
1324	70.9433	294.9960	172.0744	145.3064	124.4591
11260	70.8819	129.8748	58.3672	84.9624	56.0088
22845	70.8589	756.2657	183.8088	902.5055	199.4631
24867	70.8359	32.2736	24.7106	11.1363	15.1718
25605	70.8282	46.8015	18.2125	34.6704	17.1400
20938	70.7975	464.0342	80.8710	552.6502	102.9566
15191	70.7822	3463.0763	890.2747	3008.0421	1454.5613
17279	70.7362	34.8530	31.0360	10.5617	24.9541
15127	70.7362	1940.1414	628.6780	1221.2591	468.2481
25405	70.5982	77.4133	36.3230	50.2979	37.4492
12058	70.5828	54.2055	53.7014	15.0351	18.0428
25250	70.5598	711.2286	284.9142	910.4036	237.0648
25467	70.5291	106.2761	62.5733	57.8556	41.9509
1447	70.5291	342.4567	69.6884	423.1239	83.9005
1198	70.5061	251.0025	114.1773	153.0402	68.2062
651	70.4908	266.2135	126.8894	160.6008	104.6503
20429	70.4908	341.8336	179.8125	227.0279	160.2347
1501	70.4678	2661.7777	482.5796	2188.3262	562.6359
17886	70.4525	537.6807	94.0340	657.2049	139.8227
16602	70.3681	86.2603	49.2723	46.4570	36.3935
20664	70.3528	915.9442	361.7027	618.0405	315.6000
7062	70.3451	811.6378	301.4519	460.6393	219.6379
1601	70.2914	117.4900	50.8275	75.3705	46.3862
762	70.2914	501.9725	266.1240	835.7857	392.9219
21403	70.2837	103.1469	28.3508	125.8484	30.0781
691	70.2684	245.7613	111.4102	169.3340	102.2363
652	70.1840	542.6822	268.1221	300.4389	211.6563
322	70.1764	453.0281	306.6202	154.7048	158.5520
15032	70.1687	39.5654	9.9443	48.8803	12.5488
14330	70.1610	566.0493	282.6249	321.5301	220.6335
16074	70.1610	224.5576	33.6972	270.0489	46.4614
17562	70.1457	1039.4147	455.4380	632.7315	370.5153
11691	70.1380	114.2379	85.9547	50.7095	50.0146
16468	70.1150	386.4281	164.4934	526.2722	166.0573
17560	70.0844	1667.3999	605.5901	1146.7647	508.8432
4385	70.0537	73.4367	98.1722	-13.7106	107.7644
18160	70.0460	69.5166	41.6438	42.4443	45.9888
16560	69.9847	91.7705	24.9155	70.4373	22.1498
21211	69.9847	237.2893	91.3341	302.0582	103.4050
14677	76.8175	226.4802	94.2721	130.7408	70.3183
7289	76.7945	66.4335	43.5346	26.2553	28.6286
19042	75.4294	764.6695	197.6382	550.6440	196.3235
22677	75.0920	640.3721	178.5112	440.4358	185.8366

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TABLE 5T: Direct Acting			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18522	74.9387	165.6100	47.0982	224.4660	62.4617
7049	74.9156	63.3588	22.4719	100.2767	34.8250
21166	74.6472	572.3624	179.8096	389.7818	128.1167
8874	74.1334	244.7663	159.9602	92.3652	127.7202
11416	74.1181	139.3572	34.2949	182.6391	47.4479
17907	74.0031	159.1774	29.1194	131.2366	26.5256
883	73.9801	645.7663	114.3476	534.3579	115.5307
10676	73.8190	215.8286	57.4994	151.6517	61.9846
7288	73.6426	186.0698	82.0909	99.8218	62.5537
18823	73.6043	41.9236	18.4083	23.5281	15.1999
17614	73.6043	238.0642	81.0835	157.0430	58.1117
7620	73.5813	190.4424	45.8414	242.8727	53.9034
2205	73.5353	601.9484	146.8377	733.9714	148.1360
6879	73.5199	133.2869	79.0576	58.8169	43.7317
2708	73.5046	561.0369	151.1371	417.6276	128.6458
5698	73.3052	1821.0836	287.1025	1483.4993	311.3358
24289	73.2975	1523.6897	356.1530	1296.7997	546.5833
4291	73.1595	15.2767	9.1685	26.7335	13.9714
20905	73.0828	687.0505	115.3659	562.4923	132.4808
23038	73.0061	128.0230	138.1663	-8.0072	92.5607
7916	72.9755	487.6208	157.6953	368.5443	162.4711
23966	72.9294	1527.8882	460.8033	1071.9727	380.5524
22639	72.8911	472.0675	91.0750	598.2740	151.9917
12413	72.7914	134.4668	47.4991	91.2602	45.4854
12096	72.7531	177.8423	52.4670	120.1984	57.1088
8430	72.7454	67.7433	25.0253	98.5498	35.4876
16682	72.4923	210.3590	135.5825	92.5217	86.4764
21993	72.4156	442.9238	166.3707	284.4425	118.8870
22885	72.3083	2802.1857	552.8879	2167.6809	682.5731
15129	72.3006	625.2782	147.3869	844.0684	300.6038
2101	72.2699	220.4294	61.0309	303.3754	85.1474
19230	72.1626	137.0527	134.7081	294.5181	150.3926
10999	72.0475	141.0720	71.9572	77.4906	52.1271
17168	72.0015	340.4776	121.0427	493.3667	144.4351
7208	71.8252	489.1369	131.2646	374.9993	108.6546
2459	71.8098	141.8293	146.6439	25.4166	46.8212
19995	71.7638	90.0621	70.6634	29.4795	61.6077
4475	71.7638	107.7123	24.7017	144.0825	38.8189
11554	71.7638	201.0677	33.5106	255.4199	69.0579
16404	71.7331	155.6695	44.0809	109.2780	47.9210
23530	71.6564	104.6629	24.4867	139.1343	36.3881
22451	71.6028	69.1535	24.5231	95.2000	34.8339
22368	71.6028	1161.8998	299.5927	866.0810	292.9774
3710	71.5337	756.7761	475.8329	321.7731	319.6267
26371	71.5031	155.5071	56.0494	105.0600	58.6637
22536	71.4340	2267.2147	652.4740	1524.3402	526.3075

TABLE 5U: DMN			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25713	100.0000	27.3605	0.0049	37.9180	20.9751
21203	100.0000	78.6280	0.1018	42.4337	12.8564
17206	100.0000	228.6210	0.4087	138.1831	44.2412
51	100.0000	76.2445	5.9107	5.0897	8.7576
19864	100.0000	181.9585	16.3688	25.1109	10.8778
10540	100.0000	151.2540	6.3823	29.8380	20.5773
16576	100.0000	144.0390	0.2531	39.9686	14.8719
4325	100.0000	100.3480	0.2008	36.7876	11.9500
19177	100.0000	84.6875	0.0304	38.1897	20.3820
17587	100.0000	128.8265	0.0771	215.5694	51.9546
15862	100.0000	24.4945	1.1250	158.3676	80.2662
52	99.9414	243.6805	27.1508	72.9953	26.0619
21162	99.9414	80.7670	0.0750	40.2826	64.3215
24849	99.9414	28.2960	0.0552	22.9676	16.8589
16176	99.9414	92.0610	8.2505	16.5472	10.7680
776	99.9414	147.6990	2.8779	34.4475	20.3330
15706	99.9414	124.2995	2.5180	36.7814	14.5256
16457	99.9414	392.5980	0.0580	290.4067	77.5500
534	99.9414	1064.2960	0.7567	2332.4966	967.9459
16520	99.9414	281.3855	1.9311	1105.9252	461.7484
3815	99.9414	333.0130	12.6120	151.1011	41.4568
2577	99.9414	297.6585	0.0813	177.4394	46.7446
20093	99.9414	68.3940	0.0057	69.8793	27.8315
16566	99.9414	56.3270	0.0325	42.0637	18.3435
25808	99.8828	13.7850	0.0552	68.6572	80.6780
18226	99.8828	501.0420	2.4904	265.6737	57.6133
23060	99.8828	28.6760	0.0311	-1.2395	20.7075
22567	99.8828	82.0270	0.5614	176.4554	44.5287
25512	99.8828	187.1625	0.0403	174.2063	98.9227
9125	99.8828	909.3570	0.3946	780.1771	161.6328
17173	99.8242	170.3235	0.8620	102.6385	25.7534
463	99.8242	73.0270	0.1881	41.1953	13.4760
23678	99.8242	261.1310	0.7043	120.1191	51.8217
13723	99.8242	376.1000	30.8610	84.4885	59.8956
8879	99.8242	221.0910	4.4307	88.8893	29.0785
21099	99.8242	28.6830	0.0099	28.9031	11.6935
25538	99.8242	43.6045	0.0163	54.0500	21.9139
16959	99.8242	713.0585	0.9963	435.1765	95.7903
20681	99.8242	268.0875	1.4899	161.5667	44.2089
20820	99.8242	441.3230	0.9433	289.1172	74.5748
16899	99.8242	61.7400	1.0663	22.0537	15.6581
7897	99.7655	2160.5265	4.6830	3034.2572	980.8469
61	99.7655	14.7535	0.0134	22.2295	10.6097
21204	99.7655	165.2350	1.9163	76.2124	26.2167
4057	99.7655	28.6300	2.7280	93.2256	28.0421
1418	99.7655	20.8430	1.1908	63.7119	22.8357
5661	99.7655	34.9515	0.1308	5.6950	26.4443
997	99.7069	27.6805	0.0728	32.4751	24.0788
8768	99.7069	124.0185	2.0202	59.8267	20.6847
19120	99.7069	208.0060	13.5043	66.3128	33.7230
15956	99.6483	367.3635	28.2411	132.0668	45.0891
25644	99.6483	409.7955	0.7347	339.6840	148.8807

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TABLE 5U: DMN					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24442	99.6483	12.5120	0.0311	30.4670	16.2145
2114	99.6483	51.0740	0.1061	31.4045	15.8459
4656	99.6483	63.3705	0.0728	59.8314	24.0429
14542	99.6483	57.9350	0.2602	22.3173	27.9054
19199	99.6483	132.9415	7.7845	48.1370	17.3099
15819	99.6483	20.2630	0.0523	12.7227	12.8332
24540	99.6483	36.0110	6.6694	2.7729	6.3991
12370	99.5897	58.7615	0.1605	92.1828	72.0999
24883	99.5897	10.3730	0.1216	33.5736	24.1068
17303	99.5897	38.1985	0.0573	41.0092	15.9294
15426	99.5897	444.7295	12.6919	239.2431	53.5831
18663	99.5897	1171.4220	18.9830	683.7521	172.9040
20126	99.5897	403.7935	3.1261	158.6551	167.6957
20579	99.5897	116.7810	30.6913	-8.6682	21.7539
24651	99.5311	167.9615	3.8728	90.7041	22.9352
768	99.5311	79.2445	0.5183	211.2762	116.5352
5319	99.5311	74.8760	3.2272	33.1018	14.4556
1959	99.5311	330.3495	20.4531	1342.1689	854.3625
20438	99.5311	617.2545	28.8125	307.4408	83.9904
115	99.5311	52.8930	0.1004	58.5412	25.6974
16414	99.5311	34.7185	0.0686	41.8295	23.7064
1885	99.5311	51.1715	0.0728	48.2353	17.4862
3548	99.5311	280.5650	0.6732	215.2980	49.3444
17309	99.5311	77.9270	0.2107	59.8717	15.5407
18864	99.4725	117.0395	0.1648	144.9309	33.2411
14504	99.4725	52.8135	0.8634	178.4602	110.1545
20162	99.4725	281.9085	5.4101	76.0633	83.6833
13681	99.4725	32.9630	0.3323	66.0781	23.7046
15790	99.4725	72.4130	0.1344	51.0703	22.2470
17586	99.4725	33.3265	10.8689	158.5821	44.3925
4228	99.4725	398.1900	4.3643	193.6577	76.5714
20779	99.4725	368.2370	20.0323	896.7227	267.1937
20755	99.4725	2179.0060	45.5588	1188.6748	370.9628
14979	99.4725	21.5100	0.0679	22.0780	11.0537
17517	99.4725	726.1975	1.3626	552.5644	179.5244
21643	99.4138	2102.1300	4.4110	2300.1230	625.2893
556	99.4138	168.3630	1.0338	264.5077	89.4104
15660	99.4138	130.6170	1.8752	64.0020	30.9894
13323	99.4138	94.9700	0.4709	50.4040	33.3464
15470	99.4138	333.1695	0.6626	353.6006	94.0953
21586	99.4138	21.0970	7.4402	136.7646	58.9276
108	99.4138	731.4825	14.6817	1571.7044	614.4663
23699	99.3552	170.3400	0.3719	291.9691	298.6916
16698	99.3552	27.7150	0.1994	11.9061	8.2982
242	99.3552	53.6150	0.1174	43.5077	16.8298
24767	99.3552	156.1225	11.3880	60.2149	22.9960
358	99.2966	230.0405	5.9192	732.9759	316.9146
16376	99.2966	37.4105	0.0785	31.0601	16.6241
22174	100.0000	205.6700	3.3474	94.9925	26.9727
8027	100.0000	122.2760	9.9646	18.2553	13.8968
6147	100.0000	200.8985	0.0347	100.6404	30.4775
17474	100.0000	1291.5670	5.7318	679.3195	163.1374



TABLE 5U: DMN				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13985	100.0000	244.5035	0.0078	275.2951	262.2200
13153	100.0000	190.0490	0.0113	143.8630	57.9187
6799	100.0000	123.7440	0.0057	103.1598	42.7064
9325	100.0000	144.3870	0.0127	209.5860	71.9568
10991	100.0000	912.0790	0.7071	627.7052	111.7686
1440	100.0000	135.7105	0.4533	76.5043	23.0366
22970	100.0000	103.2145	1.2042	-2.9767	38.8720
21572	100.0000	724.1235	0.0389	780.8137	210.3820
26084	100.0000	565.9055	7.4522	158.4507	84.7587
24151	100.0000	90.6905	0.0007	36.2019	19.6956
21353	100.0000	2035.0175	16.5753	793.3389	212.7487
17738	100.0000	125.1550	2.5498	20.0347	26.2476
24555	100.0000	61.8395	0.0092	38.0776	33.3072
19561	100.0000	188.2150	0.0665	308.2321	125.4348
6667	99.9414	212.1885	12.4514	116.3236	28.0924
19034	99.9414	26.2820	0.0552	9.2506	11.8086
17528	99.9414	141.0645	0.2440	246.1902	51.7181
6558	99.9414	318.3495	0.4137	540.1442	124.1451
8418	99.9414	285.7685	0.0290	373.9372	132.4638
8086	99.9414	11.0890	0.0198	49.6469	43.4989
17529	99.9414	78.5900	0.0297	80.0136	24.8642
6492	99.9414	44.7450	0.0537	17.8360	25.5044
18379	99.9414	401.3960	0.0820	373.0676	85.5194
4747	99.9414	299.9595	4.0722	98.5272	39.9667
9906	99.9414	75.3555	0.0361	14.9610	33.8130
17513	99.9414	55.9815	0.0078	78.4821	33.9200
22701	99.9414	26.4200	0.0071	28.4175	28.1892
23759	99.9414	227.1575	1.6157	100.4637	34.9568
22769	99.9414	69.7425	0.0233	102.3249	56.9026
18876	99.9414	658.4180	0.1909	691.4859	191.9322
3104	99.8828	126.2635	0.1789	63.9632	29.5988
13062	99.8828	84.5605	0.0728	92.5682	35.6931
23081	99.8828	51.5620	1.5910	15.7782	16.0691
8604	99.8828	34.6835	0.0163	25.3206	15.0015
21806	99.8828	66.7775	0.0304	98.3640	34.4372
4655	99.8828	19.4510	0.0042	28.0757	23.9776
7873	99.8828	36.7330	0.0339	40.1959	19.0815
18961	99.8828	1000.3145	17.5921	423.7977	125.6934
5453	99.8828	39.2675	0.0332	58.8653	45.4817
18110	99.8828	111.8010	0.0297	127.8006	36.8793
13678	99.8242	20.6130	0.0396	25.6403	25.5890
10458	99.8242	83.7235	0.0149	118.7926	44.4066
21592	99.8242	398.8370	0.9829	596.3255	212.3377
22957	99.8242	1379.7135	44.9246	597.2299	222.2204
8856	99.8242	130.9280	0.3323	70.7312	24.5996
14130	99.8242	143.9970	0.1909	83.5191	47.5646
21085	99.8242	102.9440	0.7905	57.8865	22.0833
6332	99.8242	54.4380	0.0311	52.9086	25.0094
13758	99.8242	113.0065	3.0003	46.9544	18.7290
13044	99.8242	89.2195	0.0431	104.2351	55.0868
3347	99.8242	27.8610	0.2857	9.6364	11.6084
2954	99.8242	608.3940	20.3321	198.1768	123.3631

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TABLE 5U: DMN				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271:2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
9121	99.8242	190.8800	5.1817	72.1073	28.6426
23557	99.8242	225.1705	1.5450	104.3797	42.3266
2583	99.8242	1221.1515	0.9581	1640.1026	563.0633
21479	99.8242	77.2270	0.2121	33.1952	27.8112
23468	99.8242	582.9730	5.8308	326.1892	89.1417
15615	99.8242	6717.9282	4.9201	7829.1500	2565.7516
16528	99.8242	115.7955	0.2765	54.4483	24.5751
8191	99.8242	77.8235	0.0262	84.4481	23.9191

TABLE 5V: ESTRADIOL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15777	99.7653	36.6367	0.0351	35.6415	15.0059
20090	99.3545	193.2800	0.3315	192.6974	49.6871
15115	99.1784	72.8633	0.3057	59.8138	19.0615
7602	99.1197	440.9400	1.4725	350.4556	100.5816
670	99.0610	181.3033	2.8415	312.9971	123.9643
570	98.4742	387.7267	8.1677	258.6718	81.3305
1796	98.4155	363.5067	110.5558	68.2220	63.3756
24577	98.4155	2776.3600	24.2750	2172.7274	532.0246
20587	98.3568	220.3533	2.6533	251.9247	123.5360
25921	98.0634	35.1533	0.2701	38.9430	20.5406
20973	97.8873	208.5700	0.9656	198.6188	55.2730
23523	97.7700	561.2133	2.9980	578.3497	178.7237
3149	97.5352	71.7933	4.9072	6.7880	30.4294
12360	97.5352	29.9867	0.3395	30.7709	18.6078
13369	97.3592	256.2667	1.5351	229.4971	52.8205
6581	97.2418	30.3933	0.3782	32.4896	17.9967
25064	97.1831	3001.1467	55.1190	2135.9668	510.3086
25209	96.9484	185.1867	1.0489	173.0567	35.4292
21066	96.9484	287.6767	16.2441	184.8943	43.9803
15927	96.9484	82.0933	1.6819	60.4739	23.1258
23699	96.7723	546.6033	98.7900	290.7870	298.5019
20983	96.7723	173.0633	12.7458	125.5177	133.4269
16870	96.5376	20.9567	0.3232	16.9734	8.3221
16712	96.4789	659.8833	29.3393	454.6113	96.9406
11844	96.4202	8.5300	0.9207	21.9737	22.1481
16965	96.4202	252.4700	2.7239	241.8907	67.5973
24506	96.3028	21.5933	0.7490	47.1508	69.7279
1262	96.3028	27.4000	0.8002	42.6101	24.3312
5034	96.3028	1318.5767	19.3753	1039.3599	286.9719
3858	96.3028	32.7033	0.5727	28.2671	11.9223
16664	96.2441	19.2400	0.4151	20.0313	11.5476
17894	96.1854	125.7667	7.6916	81.5875	21.3502
25088	96.1268	38.8333	0.8100	29.7323	26.4770
164	96.0681	513.0767	6.5530	594.5647	137.9015
23226	96.0681	25.7433	2.1731	57.3303	24.4815
17829	96.0094	32.8600	1.2739	76.4422	81.3698
17758	96.0094	127.6933	49.3470	55.8678	229.2153
12859	95.8333	65.8400	0.9725	72.8148	39.8066
16807	95.8333	1302.3367	96.6403	868.4186	713.6275
395	95.7746	28.1067	0.6133	36.2480	26.2193
18501	95.7746	135.0300	3.1900	178.8630	108.5883
28	95.6573	23.2000	0.7892	58.7510	45.9171
25664	95.5986	24.1533	2.4310	144.8591	201.9602
20914	95.5986	679.4700	294.5337	193.7906	183.8539
1498	95.5986	1.4500	2.7635	22.5316	17.8642
20919	95.5399	477.5400	8.8549	485.4211	187.8234
11494	95.4812	133.2400	2.1389	170.6646	145.4726
1394	95.4225	53.7267	10.7183	25.0140	11.0395
15360	95.2465	241.4267	5.7794	192.0925	61.7288
25496	95.1878	93.2100	0.9924	104.5824	25.4717
20194	95.1291	37.3933	3.6295	16.4569	10.6660
2121	95.0117	15.5933	0.4102	20.2698	8.2986

TABLE 5V: ESTRADIOL				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24407	94.9531	36.9333	0.6966	33.4512	12.6278
20153	94.8944	169.2700	11.8703	319.6265	120.5809
19834	94.8944	463.9267	26.9481	314.7107	80.0148
1058	94.8357	74.2533	6.9996	181.3800	114.2473
13091	94.8357	295.1333	50.0086	171.7328	54.5103
964	94.7770	28.8400	1.0368	36.9314	34.3498
18726	94.7770	139.4333	4.9413	194.4090	85.5735
4280	94.7770	292.4600	53.3118	718.1788	282.6733
25325	94.7183	470.4533	38.1299	978.0563	543.6698
25292	94.6596	55.6900	2.4538	90.0709	40.0263
16354	94.6596	101.0767	4.9526	68.6735	93.7445
20772	94.6009	164.1367	8.3877	115.9224	32.6219
3512	94.5423	200.3033	11.2446	145.8926	45.9488
20464	94.4836	101.0233	10.3469	256.6584	162.3352
15539	94.4836	20.4833	1.2925	16.7992	17.4982
10623	94.4249	43.6333	1.5101	68.4611	58.7974
53	94.4249	41.6567	1.0849	69.7079	44.3659
15239	94.3662	2151.0367	75.4487	1649.1201	420.7544
1201	94.3075	55.8800	1.7875	81.6363	44.3806
15106	94.2488	5469.5900	227.0968	4021.2397	1010.1486
4325	94.2488	32.4167	0.7123	36.9522	12.3437
20519	94.2488	199.4800	4.3927	176.1894	67.3224
21054	94.1315	80.7567	7.7974	173.7877	99.6279
10016	94.1315	260.8467	3.8202	231.7377	66.4078
1390	94.0728	26.4267	2.1274	55.2671	52.1384
1126	94.0728	63.0933	1.5841	50.2154	18.8851
6406	94.0141	200.0833	5.5546	251.4822	97.4498
12580	94.0141	30.1300	1.9959	19.9293	6.8673
8768	93.9554	56.5267	1.5875	59.9890	20.9280
25204	93.9554	52.0000	6.6651	106.4409	56.3832
17729	93.9554	2602.3967	50.0897	2188.6019	430.5881
15312	93.9554	280.4267	12.0938	219.8715	126.5192
1525	93.8380	26.4500	1.0376	18.9245	10.5674
193	93.7793	14.0500	0.6451	27.4841	32.9704
24513	93.7793	16.9067	0.7009	20.5966	20.6945
21730	93.7793	232.2367	24.9819	147.9182	67.1400
1561	93.7207	59.6700	18.5670	247.8616	146.8644
25964	93.6620	5.0133	2.4803	54.7197	47.0318
4426	93.6620	431.1533	38.5810	276.9446	76.7217
23491	93.6620	256.0800	9.2831	225.3448	88.4238
690	93.6033	31.8033	0.9229	55.6205	42.2173
4678	93.6033	-0.3433	5.3020	28.7520	27.9267
16590	93.5446	27.7600	0.8754	29.7352	30.3229
200	93.5446	60.9600	1.8003	52.5148	22.8315
18844	93.4272	90.8733	11.6151	52.2494	19.9976
21848	93.3685	397.2467	25.5448	281.8091	70.7683
968	93.3099	45.8467	5.3084	37.5151	39.1903
4373	93.3099	290.5000	5.8868	292.4321	67.4272
16140	98.9437	144.4767	1.0337	114.2484	64.8719
7179	98.8850	31.0933	0.3213	26.0635	33.7012
22805	98.8263	355.8267	0.9804	371.7700	89.8950
3584	98.8263	55.3600	0.3477	38.4291	23.1974

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TABLE 5V: ESTRADIOL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19105	98.6502	2188.1600	15.1648	1651.5165	389.7850
17545	98.5329	12.7733	4.7240	105.8884	57.6631
10367	98.5329	88.2200	0.9111	69.6730	24.5880
13058	98.4742	42.4267	1.0410	9.3654	23.7996
11404	98.2981	547.7067	4.5172	431.6338	125.6589
23009	98.1808	-5.9300	0.7594	24.2772	32.3308
7691	98.0634	4.3800	2.0627	53.2877	56.3273
12453	98.0634	55.1367	0.3453	46.6005	28.0025
13173	97.7113	102.1967	0.7150	81.1901	58.0766
6483	97.6526	570.9133	3.7477	578.6329	135.2430
22600	97.5939	79.9033	1.3147	110.3617	52.0828
21355	97.5939	731.8967	62.8514	433.0226	450.4076
14776	97.4765	81.2567	0.5823	87.7682	26.7101
5715	97.4765	85.6467	1.8230	138.4224	70.5134
9569	97.2418	38.8900	0.5565	55.8785	28.7865
5834	97.1831	24.1400	1.4438	6.8363	12.0327
6132	97.1244	116.7000	1.5788	167.3389	70.6646
3357	97.1244	22.2967	0.9844	22.7320	38.6371
13838	97.0657	152.2400	0.9789	175.8677	33.1388
5277	97.0657	-11.3567	2.4721	20.3192	51.9831
22532	97.0070	-14.4367	4.3245	28.5391	31.4396
10123	96.8897	42.8967	3.6328	7.1414	33.5318
18404	96.7723	421.3467	2.0216	438.6721	88.3349
22645	96.7136	129.9933	1.3411	126.2877	37.6962
4089	96.6549	21.4033	0.8615	40.5899	35.3357
22361	96.6549	69.3567	1.7208	44.3362	25.6596
22636	96.6549	120.3333	1.5454	133.1039	53.4829
17339	96.5962	115.9833	3.2244	268.5033	296.6351
24050	96.5376	396.4867	20.5215	201.1032	135.7277
5336	96.4789	27.8433	0.8900	18.9348	12.2811
18909	96.4789	191.1533	10.8717	365.5577	199.0844
4847	96.4202	61.1500	2.0092	34.3076	18.6931
20396	96.4202	492.7833	7.2476	423.6362	93.4288
23851	96.3028	262.2467	6.9065	370.0065	162.8297
13657	96.3028	161.2767	2.4825	162.7452	70.8310
8872	96.1854	1084.5367	12.1680	932.2225	246.5842
7743	96.1854	54.6267	1.3155	90.2927	58.4759
13573	96.1854	109.5967	1.2531	98.8511	38.7330
19621	96.1854	1.8533	3.4065	57.4855	55.4767
6786	96.1854	124.8000	3.1056	172.2546	59.7745
6784	96.1854	-15.2000	4.3791	22.1502	22.3818
7192	96.0681	46.3133	1.4080	39.3881	28.4581
6726	96.0681	22.4700	1.3657	11.6330	23.0024
17440	96.0094	170.3767	3.1841	146.8999	43.2394
24251	95.8920	1.8533	2.1523	69.8215	88.3056
24259	95.8920	47.3133	8.7157	9.4562	18.4446
13426	95.8333	758.2933	11.5759	617.6211	154.1638
7579	95.7746	23.2800	1.9203	42.2562	51.2330
14841	95.7746	160.6333	1.6758	146.3993	38.2831
13237	95.7746	30.6867	1.3051	10.3230	23.6487
11127	95.7746	69.3267	1.0729	67.6546	26.4007
10531	95.7746	44.8300	1.3517	31.7646	11.6661

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TABLE 5V: ESTRADIOL				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12717	95.7160	43.1567	20.4871	2.3161	14.7785
9702	95.6573	41.0100	1.0053	33.4895	21.7603
4585	95.6573	1507.8000	16.7397	1350.0070	325.5768

TABLE 5W: ESTRADIOL					
Timepoint(s): 3, 6 hrs			Attorney Docket No. 44921-5113WO		
			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14015	95.9364	7.4500	2.0757	36.2586	52.5492
20601	94.9352	125.8983	25.4022	382.4826	304.1164
15190	94.6996	9167.3150	1934.8056	3963.7132	1940.8538
15191	94.2285	6864.4833	1750.4759	3002.2267	1397.7873
15189	94.0518	8412.9000	1402.9765	3850.7153	2047.7123
17764	93.6396	3869.5183	558.6225	2518.9364	638.5703
3015	93.0506	5202.7150	503.9416	3390.1757	1054.1117
16210	92.8151	123.3500	11.7221	195.9977	51.2635
20865	92.6973	66.9350	6.4646	34.1428	23.7925
17469	92.6973	34.2417	3.7311	72.1749	33.2967
20600	92.0495	62.7683	16.8436	213.3377	192.4126
25682	91.9906	51.3317	2.3507	73.2853	30.4119
16023	91.7550	30.1083	7.3382	81.9804	37.8459
24430	91.6372	38.1517	4.0548	23.5251	14.7870
23310	91.4605	39.0817	8.8286	91.1889	36.4372
2040	91.1072	71.6667	10.4802	131.2543	44.8144
4647	91.0483	109.0367	23.1612	213.9934	64.1036
14882	90.9305	319.5850	34.2503	354.9272	236.4545
16681	90.8716	72.3300	27.2077	209.5454	118.6008
23301	90.8716	81.1167	16.7956	146.4708	39.2242
18582	90.8127	91.5150	12.8252	169.8251	58.5977
20519	90.6360	252.8333	24.5334	175.7301	67.1192
17997	90.5183	16.9633	5.9458	49.8967	24.0680
19112	90.4005	35.5283	9.3830	79.6818	35.5738
17815	90.3416	11.3500	4.5647	31.9591	15.7313
18043	90.2238	245.5817	47.5548	134.7912	78.5740
24649	90.1060	70.6117	4.8791	92.4713	26.6086
3455	90.1060	574.6933	55.7057	428.9242	167.2514
11966	89.9882	98.9950	5.8306	133.2732	36.6442
22918	89.7527	125.3867	8.7212	182.5789	65.7887
17082	89.6938	28.3333	9.8518	58.3442	23.4933
18108	89.5760	891.1683	39.6411	708.5249	181.2037
4523	89.5171	7.2717	3.5616	24.6725	13.8623
17959	89.3993	37.0300	6.3590	60.3188	33.2192
4243	89.2226	56.5200	17.9940	122.7986	46.4123
23709	89.1637	22.5133	10.6099	61.9253	27.8480
862	89.1048	334.7233	8.6048	302.8110	69.5750
6013	88.9870	568.5733	42.3269	525.9798	271.0971
15997	88.9282	544.8900	128.1960	289.6059	218.3472
15203	88.9282	327.9733	32.4177	254.7117	58.5132
12700	88.9282	880.9300	72.1025	665.0876	313.7196
19227	88.8693	73.3533	15.9414	122.9497	34.1755
17779	88.8693	288.3767	15.0954	357.5955	74.5108
16301	88.8104	288.1717	85.2848	145.0101	147.1031
23980	88.8104	17.7383	10.3327	60.5939	30.6058
15265	88.7515	643.7250	59.8111	489.1888	115.6497
23543	88.7515	231.1900	16.3098	341.3952	126.4711
25209	88.6337	124.6350	17.6923	173.4418	35.2364
4327	88.5748	442.2050	17.9482	330.4861	116.1841
21800	88.4570	46.7767	11.8329	84.7152	26.9302
4486	88.4570	31.9617	4.4646	50.8489	17.9376
20628	88.3392	43.4383	9.8886	376.2653	452.1360

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TABLE 5W: ESTRADIOL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2641	88.3392	17.7533	15.6835	49.3137	20.7293
1877	88.2803	163.2117	16.1524	227.8820	68.7031
9929	88.2803	122.0517	16.3367	230.7063	125.9980
17507	88.2214	237.0767	54.3189	412.3749	117.7954
11611	88.2214	50.6167	4.5348	79.1007	38.5138
4517	88.1625	34.3217	5.0384	57.4682	20.9413
17308	88.1037	26.9183	3.8748	42.0561	13.3979
488	87.9270	289.5633	98.5507	1435.0396	1088.8220
17512	87.9270	168.3700	16.1437	228.7933	48.9760
16524	87.8681	18.0950	6.6030	38.0841	14.7521
16456	87.8681	104.5783	19.3414	172.6927	51.8747
1291	87.8681	158.4083	12.6852	207.6356	46.7060
405	87.8681	295.6917	40.5922	215.6046	115.7355
5317	87.8681	680.1450	79.1924	692.8739	480.1527
17754	87.8681	254.4750	45.7479	464.5748	162.9727
9841	87.8681	808.0567	54.0168	793.1243	299.4511
10660	87.8092	74.0483	5.6834	62.7497	19.8749
17587	87.8092	243.4000	11.4723	215.1684	52.1856
20724	87.8092	24.6900	3.9911	46.5246	20.6937
23522	87.7503	261.7233	13.8876	252.1634	79.7373
16510	87.6914	89.1083	11.1366	173.8814	80.4262
25400	87.6325	977.9383	166.8075	602.1520	308.2381
446	87.5736	85.6417	7.9352	75.3979	40.6649
18564	87.4558	76.6950	6.1079	117.0832	46.9445
18032	87.3380	-11.2967	19.4382	30.5344	29.9177
16708	87.3380	198.6383	15.1582	260.9401	84.7186
5107	87.3380	49.8333	6.1750	81.4311	31.7077
8097	87.3380	1237.4800	59.8942	1038.6759	278.7603
18180	87.2792	16.3083	5.4291	35.8572	16.0527
25706	87.2497	48.9150	38.7615	3.9442	26.7475
10185	87.1025	12.9467	3.4184	28.1031	16.0516
10498	87.1025	3546.8800	249.7858	2898.8479	679.2523
4011	87.1025	627.7050	93.7796	344.4187	238.5615
3027	87.1025	2856.4400	146.2722	2342.0446	599.1069
15135	87.0436	2505.8533	236.7948	1888.6190	484.5209
1169	86.9258	87.7100	18.2772	179.3153	85.2398
2505	86.9258	220.0700	21.9212	223.3024	105.7846
16929	86.9258	2345.7183	128.1357	1977.5596	400.1011
23987	86.8080	67.5050	3.9536	85.4625	31.3117
17649	86.7491	6.1433	8.9355	29.7468	17.6809
22858	86.6902	57.8650	17.7896	99.9260	31.0688
15137	86.6902	1755.9750	92.8778	1537.6931	344.9392
20896	86.6313	13.8617	5.6783	30.6364	16.2931
18810	86.5724	338.9633	50.9081	476.7480	104.8706
1973	86.4547	169.2583	34.4704	264.5657	75.8865
15800	86.4547	40.8267	2.9786	53.0703	24.1713
1899	86.4547	10.6300	5.1894	34.2449	30.3228
357	86.3958	80.2850	15.6870	56.9612	29.4959
19092	95.6419	7921.6467	357.8214	5100.5972	1408.9156
21740	95.1708	274.3017	15.5394	438.1631	165.4757
3708	95.0530	553.3800	144.3885	213.4637	128.0729
3376	94.4641	-0.0550	14.9486	23.6759	12.4331



TABLE 5W: ESTRADIOL					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16569	94.2285	113.8867	10.0209	176.0609	37.8706
12802	93.8163	763.6800	198.2722	423.6223	152.7835
5208	93.6985	5540.8483	699.7549	2636.9835	1336.9699
16111	93.2273	165.9617	15.6154	274.2269	75.1231
22060	92.8740	-34.4800	11.5351	27.0342	40.1355
2141	92.8740	260.0383	19.8404	425.3062	134.2690
6521	92.8151	257.2733	24.1022	172.2920	52.7422
13634	92.6973	4998.8967	697.5690	2853.4748	1037.1945
2099	92.6973	1183.3100	74.0262	843.9261	202.1175
23530	92.6384	115.1167	4.2949	137.6799	36.7196
14622	92.4617	214.5950	34.7123	104.3705	64.8573
2246	92.2261	42.2367	13.1786	105.1049	59.9889
6440	92.2261	817.7067	28.3416	629.2167	169.1190
2603	92.1084	187.2217	16.4073	148.2182	98.9022
14424	91.9906	3469.5100	591.3573	1747.8921	866.4359
17117	91.9906	2741.2250	254.4631	1959.9885	423.6502
26327	91.9317	24.3500	9.7483	6.0159	10.8045
13633	91.9317	2747.1833	350.6961	1641.9758	611.4978
10176	91.8139	188.3367	18.8885	301.5238	84.9322
8477	91.7550	775.0450	159.1300	516.7410	143.2798
3133	91.7550	189.0850	17.4704	272.7943	59.1762
4001	91.6961	112.1867	7.5530	200.2757	81.7460
9432	91.6961	91.0833	17.7474	39.2321	30.5978
11446	91.5783	598.4833	25.5114	492.0273	108.0746
22969	91.5194	298.9050	30.3133	457.4737	116.2176
18669	91.5194	73.8200	13.1564	163.2855	65.3211
10269	91.4605	5046.7200	255.4008	3899.5250	800.9538
14051	91.2839	503.6483	58.7577	342.7065	111.3031
11421	91.2250	107.7850	12.0373	171.8655	43.2103
3417	91.1661	1580.3250	95.2824	1145.3441	328.1766
22957	90.8716	814.4950	53.0541	597.5378	225.1902
23477	90.7538	61.3617	3.5295	80.8098	46.3543
10087	90.6949	177.9333	11.2364	287.9610	134.6420
15246	90.6360	48.9150	21.0242	83.9365	21.8349
9492	90.6360	49.3467	7.4073	83.4706	24.3122
2610	90.6360	3087.4400	313.3123	2514.2944	1640.2004
3079	90.5183	175.1517	12.3758	279.3907	117.6706
22876	90.4594	158.6733	22.1152	104.4160	35.6967
14328	90.4594	96.5933	14.1784	165.1451	51.8878
15179	90.4005	2.7333	13.3405	40.7851	28.6783
12622	90.4005	-21.2333	12.8254	31.0369	35.8592
14734	90.4005	28.0500	7.0327	3.7592	31.8280
3139	90.2238	5172.0167	987.4111	3291.9580	1106.2295
8322	90.2238	21.7950	15.8146	59.2176	23.9984
22885	90.1649	3311.5850	440.0017	2189.4909	685.1268
5637	90.1649	9.9950	17.9449	65.6686	36.4965
6291	90.1649	156.0150	16.9060	258.8655	96.3304
11404	90.1060	615.9567	75.2152	430.7413	124.9767
17479	90.1060	64.3667	9.3776	93.1423	46.1995
22688	90.1060	55.0767	23.0803	189.5870	109.3148
16175	89.9882	7824.7950	863.4867	5453.2757	1369.8089
17755	89.9293	122.5617	19.3752	236.8155	112.2481

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TABLE 5W: ESTRADIOL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
4335	89.8704	102.1133	7.1788	118.5110	56.0123
3612	89.8115	241.6800	53.8698	115.6380	75.4673
24721	89.6938	18.6450	5.7678	39.4846	16.5963
10195	89.6349	185.3217	26.6365	315.3553	103.1341
2416	89.6349	236.1717	27.1880	417.8900	147.0255
2299	89.5760	110.9150	10.2370	154.6761	84.8877
7111	89.5171	200.0783	24.7526	273.8334	51.9571
15148	89.5171	488.4500	19.8265	548.5374	166.0336
22600	89.4582	191.0683	33.1576	109.6837	51.6960
22914	89.4582	570.2717	38.2628	768.0887	473.1840
3737	89.4582	35.8600	6.7825	21.1929	24.0766

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TABLE 5X: GEMFIBROZIL						Attorney Docket No. 44921-5113WO
Timepoint(s): 24 hrs						Document No. 1926271.2
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
891	100.0000	57.9780	22.7123	792.5727	364.9740	
21103	100.0000	352.7470	2.4593	177.7142	50.3071	
17999	100.0000	72.2140	15.7246	967.7092	260.3414	
16204	100.0000	3140.5050	1.3633	1867.6155	376.3425	
17913	100.0000	629.6300	7.1729	230.5575	60.1008	
4461	100.0000	-30.1605	2.6920	27.9762	13.5366	
18152	100.0000	148.4440	0.0608	71.0558	18.2764	
20700	100.0000	660.5955	0.3727	3033.8896	1095.2713	
18000	100.0000	150.0980	3.5836	1238.8431	346.4943	
19087	100.0000	34.8370	0.0014	22.6736	12.8198	
24825	100.0000	166.1255	0.3189	853.1212	419.9981	
15864	100.0000	105.6765	0.0191	163.5531	58.6481	
15376	100.0000	429.1690	1.0140	243.0715	64.8875	
24862	100.0000	-14.1915	0.6357	131.7352	54.7681	
18313	100.0000	38.6850	0.0198	26.0188	44.0744	
11938	100.0000	526.7985	7.4112	1143.7574	277.9033	
16400	100.0000	766.9855	120.8735	5008.3705	1697.7519	
10503	100.0000	14.9175	1.0274	183.5102	121.4959	
17257	99.9414	-22.3100	1.0409	33.2762	24.3056	
14934	99.9414	148.3030	0.1428	112.7899	25.0864	
24626	99.9414	3517.2184	21.3384	2114.1016	353.6343	
25479	99.9414	90.9970	7.5646	436.7929	163.5942	
11905	99.9414	85.7420	0.0382	57.6611	27.2409	
21834	99.9414	39.0690	0.0566	10.7834	18.6882	
23058	99.9414	0.0170	0.1838	20.5057	10.5402	
18079	99.9414	211.2360	1.3873	112.9897	53.4861	
17729	99.9414	3740.7170	9.3678	2186.4180	424.4259	
4412	99.9414	553.1410	3.3927	301.9819	73.4835	
16918	99.9414	5112.4294	19.5873	3017.7011	882.9682	
16417	99.9414	260.2670	0.2998	165.1403	51.6355	
17281	99.9414	17.1160	0.6421	156.2902	82.7344	
10016	99.9414	241.9885	0.0403	231.8160	66.3897	
4352	99.9414	26.6335	0.3458	-2.0568	11.7466	
20896	99.8828	-10.3445	1.7034	30.6145	16.2001	
1516	99.8828	61.4820	0.6265	23.8791	19.5909	
427	99.8828	631.8890	2.5682	1712.8640	924.2715	
14959	99.8828	2597.5034	10.3697	1630.0084	408.4468	
8097	99.8828	1657.9465	2.7641	1038.6223	277.0228	
18001	99.8828	33.0820	8.0907	358.0646	124.4128	
656	99.8828	70.6805	0.0290	100.4979	28.2091	
14996	99.8828	-8.3695	0.1351	44.1282	42.8789	
15932	99.8828	328.4995	1.4149	135.8679	35.1857	
7875	99.8828	112.6540	0.8316	55.4683	18.6672	
10306	99.8828	2064.2914	21.0145	650.3076	230.7671	
19335	99.8828	528.6560	2.4141	336.4630	93.1191	
16516	99.8828	-5.6190	0.3578	26.9786	20.7532	
16615	99.8828	41.4290	0.9532	6.4854	5.8430	
556	99.8828	33.0355	4.0708	264.8250	88.8258	
18060	99.8828	301.7945	1.9170	173.9549	38.2289	
16367	99.8242	-32.8460	3.5497	623.7337	286.1924	
21400	99.8242	63.1650	2.3688	348.1832	149.8176	
14970	99.8242	10.9805	0.7205	59.1567	25.6000	

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TABLE 5X: GEMFIBROZIL					
Timepoint(s): 24 hrs			Attorney Docket No. 44921-5113WO		
			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18358	99.8242	884.1855	3.5178	504.6891	126.5067
20848	99.8242	1625.2790	20.1865	981.3555	197.5591
17635	99.8242	76.4400	1.1271	275.0091	132.3821
504	99.8242	20.3465	0.0318	14.2702	8.5690
15154	99.8242	1077.6445	40.0951	482.1367	167.2712
16482	99.8242	268.7165	0.6611	189.1817	44.7613
19831	99.8242	233.8855	8.0858	107.4432	32.2145
7637	99.8242	108.1690	1.1837	46.4525	16.8638
19870	99.8242	92.9975	3.6579	31.1070	13.7351
1285	99.8242	203.2245	1.7176	103.3524	35.5581
26053	99.8242	414.8170	0.9815	186.2617	152.0722
1639	99.8242	45.6460	0.6208	114.1141	36.1955
18490	99.7655	201.0005	0.4236	135.6860	33.0218
23950	99.7655	191.8915	7.7082	86.9859	24.0886
25799	99.7655	128.9675	0.1322	213.2875	141.3784
25480	99.7655	25.8080	0.0396	29.7690	28.3762
25204	99.7655	15.2615	0.3048	106.4632	56.2704
18038	99.7655	12.3210	0.1923	45.6149	22.5872
626	99.7655	559.0200	27.6705	88.5603	71.8056
25962	99.7655	127.7795	0.1888	83.8237	41.8055
15688	99.7655	29.0325	0.1945	11.4954	12.3693
1041	99.7655	21.2510	0.0806	3.3769	9.3395
12932	99.7655	51.0405	0.4023	0.4111	24.2421
21014	99.7655	130.6825	8.4054	828.8222	437.3759
16922	99.7655	161.5700	2.0266	362.6156	127.0364
17204	99.7655	346.9705	44.9939	1024.0512	267.2032
25802	99.7655	647.1835	0.4618	648.2659	152.4099
20982	99.7069	251.8350	2.6927	103.2733	34.6272
1004	99.7069	167.0760	5.6908	73.7007	19.8296
15281	99.7069	1274.7875	40.5463	544.6479	172.7761
20698	99.7069	-7.8545	1.5677	374.4346	210.0279
21657	99.7069	285.7650	15.1490	887.6602	405.3258
16013	99.7069	76.1980	0.0877	57.0948	15.0628
13088	99.7069	53.3435	1.7204	280.4627	160.8363
1175	99.7069	-21.5575	0.1549	42.5681	75.8417
20283	99.7069	219.0165	0.5070	145.6425	55.3122
6110	99.7069	49.4900	0.0919	33.7993	20.8643
25680	99.7069	415.6810	9.4116	1070.7598	306.8587
2367	99.7069	62.5365	4.8826	207.7263	53.3965
428	99.7069	408.6365	7.9387	1933.4240	962.2181
240	99.7069	300.4635	0.1718	254.7996	100.1273
22862	99.7069	7.0705	2.0556	153.7047	89.6820
1562	99.7069	106.2345	2.3568	321.4104	128.6502
1450	99.6483	42.9430	2.0902	14.6996	8.0472
6968	99.6483	103.0745	0.4038	154.7418	34.3119
1785	99.6483	148.1300	4.9568	55.9406	21.5427
19252	99.6483	1285.1655	2.7839	983.2921	239.1590
4433	99.6483	201.6470	0.7255	129.7774	34.0644
21414	100.0000	45.1120	0.5473	192.2360	94.3847
6018	100.0000	69.6890	0.5374	1089.9992	1181.9021
15315	100.0000	6093.8755	0.6401	4650.7826	1113.8360
22744	100.0000	17.3685	0.0177	55.0555	18.1037

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TABLE 5X: GEMFIBROZIL					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11127	100.0000	17.2830	0.1471	67.7786	26.2720
6175	100.0000	24.4395	0.0035	26.6274	16.7868
20910	100.0000	1510.6615	12.9054	885.0722	178.9333
7983	100.0000	152.0685	0.8450	62.2263	20.0220
3677	100.0000	427.8770	0.8358	189.7970	57.0601
23424	100.0000	2145.3285	0.6258	1354.3276	355.6500
23162	100.0000	19.8825	0.1237	420.3028	302.1243
9312	100.0000	5.7465	0.0417	34.1231	16.2666
18002	100.0000	98.5510	6.7939	1301.3013	483.4690
23159	100.0000	1594.2170	40.8312	565.1815	275.4117
18826	100.0000	6289.1785	90.8187	1819.3408	901.9448
9829	100.0000	1064.3615	2.2550	82.1876	93.1961
4039	100.0000	227.4660	5.1463	64.6316	31.5157
15373	100.0000	1327.1115	9.6952	529.4636	193.9368
5809	100.0000	63.4430	0.0028	44.1631	33.3037
2141	100.0000	142.6990	0.4695	424.8063	133.9793
7781	100.0000	23.0380	0.0156	6.0301	14.7202
14263	100.0000	196.1725	0.2708	108.4057	65.0468
19105	99.9414	3294.8090	82.6764	1649.5509	382.6456
6016	99.9414	85.4555	1.1335	513.5949	235.0521
23824	99.9414	608.1620	10.9022	283.5709	88.1566
13502	99.9414	413.4770	13.8310	162.2846	54.6755
16616	99.9414	570.9840	22.8169	160.3559	73.0640
12916	99.9414	18.6380	0.0028	20.4862	19.1484
4719	99.9414	27.0475	0.0078	63.9708	26.4701
9079	99.9414	67.0295	1.0359	326.6761	227.2947
2296	99.9414	72.8825	5.8372	477.9848	182.7014
13928	99.9414	17.6405	0.1181	57.5238	29.0990
2267	99.9414	456.4670	0.9376	200.2759	65.7386
11274	99.9414	77.5365	0.0742	131.8063	41.2690
3981	99.9414	-13.1520	1.6461	205.9330	218.6302
17592	99.9414	253.1340	0.2758	130.9571	53.2344
6872	99.9414	1287.8465	8.2668	526.0131	200.0712
23521	99.9414	95.1755	0.0431	275.0689	250.8783
19249	99.9414	1624.6035	28.5848	484.2061	236.9923
3326	99.9414	39.1305	0.0318	7.2682	20.8794
2787	99.9414	387.7805	0.7220	596.8751	167.0026
13286	99.9414	78.7540	0.3776	289.7144	154.6678
10641	99.9414	482.7420	1.4397	140.2145	56.2296
10941	99.8828	26.7435	0.0799	11.8085	18.6362
2339	99.8828	274.2035	0.4900	542.1906	158.9192
7223	99.8828	67.9885	2.4940	234.5974	66.0002
19669	99.8828	17.4295	0.0686	66.4653	30.7736
15085	99.8828	457.2490	1.5118	1017.9023	337.7514
10825	99.8828	559.3730	16.1602	209.5752	63.2411
7691	99.8828	2.8740	0.1499	53.2339	56.3161
4401	99.8828	10.9095	0.2878	44.3672	17.1855
19822	99.8828	274.5565	0.3712	423.1763	104.8925
10902	99.8828	310.5465	3.3623	7.3221	106.2591
19009	99.8828	2882.6265	160.9990	1069.2950	283.4635
26173	99.8828	328.3225	1.8166	154.3181	56.7976
21894	99.8828	533.9345	10.3937	177.6775	84.9097

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TABLE 5X: GEMFIBROZIL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15751	99.8828	31.7410	0.0057	37.4075	15.9568
23749	99.8828	245.9940	2.5428	115.7091	42.5860
4107	99.8828	68.2995	0.3104	204.6376	86.2987

TABLE 5Y: GEMFIBROZIL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16192	95.8235	26.0524	0.3105	28.1627	9.6372
24651	95.4118	88.5786	1.0425	90.8984	23.2786
21835	94.6471	23.0874	0.8774	14.5993	8.1355
15997	94.5882	755.6824	208.5589	288.6663	216.0823
4290	94.2353	167.0366	11.1857	128.6356	77.8630
2628	94.1765	513.9864	204.7688	184.4014	134.5587
20812	94.0588	3083.5518	70.4052	2972.6140	742.3632
13479	94.0000	174.8156	4.4067	165.1229	59.1525
20282	93.8824	3.8280	1.0575	34.7229	47.4168
18538	93.2941	50.2250	2.4605	90.2790	63.4608
1632	93.2941	25.9402	0.9927	33.3579	18.5509
14330	93.1176	283.2154	12.8483	333.2623	230.2419
22352	92.3529	741.7320	161.4476	436.4692	224.7733
24518	92.3529	619.0768	13.7127	611.3573	148.8992
22670	92.2941	72.3686	5.6363	51.1689	24.6316
11210	92.1765	67.7244	19.4301	37.7035	19.1317
21848	92.0000	252.5148	6.5262	282.3888	71.1547
12014	91.8824	347.2714	8.7398	295.5459	66.4043
20940	91.7059	1071.2330	51.3145	1143.4127	504.7973
1035	91.2941	59.3954	2.5539	58.5073	28.2435
18079	91.0588	138.6012	4.1963	113.0702	53.7555
1813	90.8824	152.7016	67.6086	51.9054	64.4602
23543	90.8824	276.7548	11.1362	340.9975	126.6418
19067	90.6471	12.3746	1.0643	25.1595	25.0136
20868	90.6471	22.5940	2.8008	15.5601	19.6739
9134	90.4118	605.3016	24.4099	693.6102	154.8982
1356	90.2941	15.3086	2.7497	38.7415	29.4538
16146	90.2353	98.1826	4.6022	75.8604	24.1477
16468	90.0588	529.3390	17.7182	519.6732	168.9895
15647	89.7647	79.8634	7.3649	48.0490	27.2775
25531	89.7059	36.1214	5.6779	22.0008	10.7202
10071	89.6471	81.6614	22.1625	43.9697	35.6392
21654	89.6471	1184.8664	150.2557	853.9959	223.4421
20549	89.6471	28.9430	4.3335	16.4473	19.2909
17060	89.5294	44.7930	5.5842	55.5395	43.5963
21589	89.4706	125.9200	18.6847	84.1155	27.4426
21707	89.4118	215.0292	18.7593	146.2346	82.5806
4539	89.3529	25.3444	3.6142	9.6372	14.8622
20719	89.2941	138.3752	13.3743	99.9510	33.9549
13973	89.2353	30.1746	2.6480	57.7344	32.5529
18597	89.1765	1107.1500	48.2089	1079.1061	373.1218
17161	89.1765	2744.3006	134.6568	2232.8815	738.2172
6403	89.1176	177.9958	7.4319	174.0769	50.6689
21955	89.0588	68.1074	8.8779	38.8995	28.7519
17709	89.0000	108.5914	8.2726	89.5435	46.8767
1977	88.8824	414.9094	63.1999	286.9487	131.2726
4527	88.8235	74.9966	12.1418	50.6772	24.6847
14261	88.8235	23.7634	2.0656	34.5420	17.5595
70	88.8235	123.2140	10.0378	106.3738	50.7063
4312	88.7647	53.9818	8.4032	137.5738	142.6727
18583	88.7059	38.9130	11.7078	19.1538	13.4573
412	88.7059	4975.9194	360.0045	4394.9721	1655.5159

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TABLE 5Y: GEMFIBROZIL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18714	88.6471	451.7764	29.9084	391.4240	143.9549
18445	88.5882	125.5272	11.5614	273.5453	163.3329
16381	88.5294	321.8074	17.3590	430.8460	120.7778
23226	88.4706	69.6244	3.9014	57.1465	24.5621
10498	88.4706	2971.5530	123.6171	2902.9946	681.2160
15411	88.4118	212.9686	45.0772	133.9224	83.9780
1113	88.4118	29.3590	2.5920	25.8072	20.3150
19018	88.2353	231.7870	17.3511	200.1697	102.2140
24471	88.1765	31.3008	7.7348	26.7249	25.0803
25505	88.1765	19.2532	1.2415	24.1520	12.2595
1126	88.1176	54.4044	2.5282	50.2362	18.9195
25518	88.0000	36.9104	3.1513	41.2061	20.0131
15434	87.8824	177.8866	107.4986	49.9605	28.6816
20844	87.8824	2268.2508	118.4658	2082.1467	642.2616
10260	87.8235	55.5444	4.9421	83.3242	31.8393
17494	87.8235	23.3910	1.5573	29.9757	9.0980
23084	87.8235	22.5278	1.7396	20.5828	14.0740
15437	87.7647	70.7694	40.7655	14.8768	12.2052
442	87.7647	14.7536	1.5554	24.5677	12.4089
16147	87.7647	27.1532	4.0071	42.9308	17.5802
19241	87.7059	251.9096	29.0674	194.5401	69.2356
19391	87.7059	359.1440	25.0126	404.9257	204.7553
23524	87.6471	521.8950	39.4063	395.4485	194.7519
15829	87.5294	292.4126	164.0932	26.7817	75.2457
15372	87.5294	520.2096	22.2412	428.2622	96.7533
25689	87.4118	2667.3282	146.6749	2453.1727	682.7294
14951	87.3529	-2.8730	14.0012	34.1179	34.7728
4378	87.3529	63.6198	9.4185	42.5137	22.3089
15137	87.2941	1069.8870	138.1188	1541.9857	343.2685
1099	87.2353	93.3982	6.2595	85.4352	33.5609
20248	87.1765	28.1572	3.3711	27.5553	17.2393
2010	87.1765	3127.7042	217.0105	2933.6622	1113.4032
17757	87.1765	68.7980	5.7684	84.2577	29.5837
17316	87.1176	160.4396	98.9052	34.7257	25.6670
20987	87.1176	166.3364	8.0886	190.9699	42.8722
24185	87.1176	76.3350	3.4399	73.7984	21.2096
695	87.0000	66.4954	5.1065	54.8316	26.8517
1859	86.9412	33.1778	4.3151	44.7810	25.8054
18031	86.8824	149.5292	9.5226	145.5405	50.2935
9537	86.8824	59.8876	4.4348	44.0915	19.2299
4294	86.8235	30.1152	4.5674	23.9149	17.1394
24473	86.7647	203.2812	18.5571	178.4669	64.6842
14185	86.7647	330.5408	54.0110	275.5481	178.9270
18100	86.7059	111.0264	6.5239	110.0394	40.0557
4957	86.7059	67.8362	15.3129	148.2055	68.0318
15767	86.7059	71.7004	4.5321	82.9583	29.6649
16148	86.6471	681.9648	157.7688	486.2290	363.9556
21069	86.6471	56.9494	6.3717	42.5139	12.3694
22522	96.8235	74.8670	13.1507	158.7987	42.9206
9271	96.5882	19.3582	2.5251	48.3498	29.6000
18350	96.1765	483.7604	97.2371	230.1633	81.8518
2231	95.1765	96.1968	10.1687	234.5461	112.9411



TABLE 5Y: GEMFIBROZIL					
Attorney Docket No. 44921-5113WO					
Timepoint(s): 3, 6 hrs					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19503	95.1176	28.1032	0.7837	27.2246	16.8340
12047	95.0588	82.5824	7.3468	46.3194	21.3626
22586	94.9412	7082.6896	410.8100	3813.0795	3591.8467
11502	94.7059	502.6166	111.8388	888.5788	197.3000
6585	94.5882	1668.3652	395.7349	485.2994	535.5038
5953	94.5294	698.1506	88.6908	337.9868	170.5397
22980	94.2353	140.1904	8.8311	94.6526	31.6648
2539	94.1176	84.2148	4.9265	81.5631	62.2187
6476	93.8824	87.1606	6.4243	47.0861	37.7315
12795	93.5882	65.8048	16.1058	8.3429	31.4612
8143	93.4118	497.2378	92.7314	236.5242	137.1192
4707	93.4118	70.5974	2.0542	68.9675	32.7414
14298	93.2941	318.3108	34.1131	188.4397	97.4695
22171	93.0588	523.7928	33.8739	368.9414	97.8386
20524	93.0588	66.0146	8.4943	35.0581	19.9586
20918	93.0000	55.3676	48.2257	120.9113	43.3572
9942	93.0000	668.9648	17.8820	649.4574	208.8295
22111	92.9412	223.3540	10.9983	166.4401	57.2748
2704	92.8824	-0.9652	22.5092	70.8519	42.1017
9419	92.8235	14.5084	0.9160	20.1123	10.9146
2249	92.7647	58.0682	4.4170	34.9093	17.0172
10024	92.7647	45.1246	1.8499	39.8009	24.3970
24373	92.7059	352.3202	38.4587	207.1689	74.1531
23595	92.6471	99.3968	12.8051	52.3067	28.6214
21164	92.4706	274.4614	7.9488	233.2003	97.5254
5255	92.4706	433.6690	88.5946	207.4231	102.6722
8707	92.4706	470.3854	25.8874	342.0778	88.0795
5242	92.3529	88.0082	3.0155	82.0582	32.8720
21504	92.2941	493.1012	30.2263	751.6040	274.6158
19367	92.1765	2665.7216	301.7146	1363.4436	1339.3755
14230	92.1176	73.9098	5.4211	47.2590	23.3927
4849	92.1176	1394.6232	26.7648	1415.8893	318.3375
24200	92.0588	805.8238	72.4410	537.1142	159.1310
14589	91.9412	583.7412	148.8885	293.2676	139.3614
6796	91.8235	747.1966	97.9739	479.3440	151.5700
8274	91.7647	209.3936	14.0560	149.8646	44.6497
23124	91.7059	70.2404	13.9117	120.8428	34.9208
17823	91.5294	558.6944	14.8250	553.7988	133.1730
10869	91.4706	248.1242	89.9937	77.7430	96.8148
23587	91.4706	228.9080	18.8750	161.0235	47.9041
14303	91.4706	379.2070	15.4531	360.0660	124.7831
4521	91.4706	235.8458	11.7881	304.5494	86.6208
14258	91.4706	215.1518	6.8913	175.3964	49.0046
3457	91.4118	36.6412	4.9377	62.2120	21.6901
8049	91.4118	96.3554	3.6622	108.8027	42.7195
8715	91.4118	114.7808	28.7192	369.3070	266.6937
17773	91.3529	480.8214	83.5156	309.3781	100.5674
23099	91.2353	288.7692	13.2244	254.0847	112.0855
6382	91.1765	491.1246	27.1535	330.4612	170.2312
12731	91.1176	232.1998	33.6727	102.4383	104.2591
19624	91.1176	248.9984	17.0238	235.1748	130.1171
3362	91.0588	45.5940	13.2879	87.4348	27.7746

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TABLE 5Y: GEMFIBROZIL				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19561	91.0588	326.5228	16.1238	307.8421	125.7779
13515	91.0000	361.4700	9.5936	299.9174	106.4200
22666	90.8824	323.6434	103.1470	185.9957	116.0819
8850	90.8235	147.6210	25.3208	97.5437	43.1598
8501	90.8235	53.7868	4.5417	87.8370	31.9776
19075	90.7647	588.9430	132.3429	339.0957	171.0943
14492	90.7647	454.1514	62.6555	268.5095	103.0903
13009	90.7647	64.6190	6.8333	107.2373	49.0046
22933	90.7647	1458.7786	161.0636	776.5016	606.3624
12241	90.7059	149.4844	31.6464	72.1720	55.0721
19783	90.5882	684.7546	29.4488	726.3348	208.0541
14149	90.5882	268.1370	45.0320	183.7671	50.3125
21661	90.4706	686.1798	36.7479	1086.3829	589.5578
2093	90.4706	1083.2606	123.2140	508.0925	412.2086
18406	90.4118	91.6354	12.2445	49.1050	27.8390
11542	90.4118	163.1946	5.2303	192.8448	36.1804
8431	90.4118	132.1784	26.5846	75.6269	39.0401
5866	90.4118	1072.7196	129.3060	730.9015	226.5649

TABLE 5Z: HEPATITIS					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12788	89.2114	63.9089	34.9557	11.1482	20.9174
19952	86.1674	4.4050	8.2814	29.7049	23.7363
2079	83.7139	114.0090	15.6331	162.8803	45.3009
1928	83.5728	71.7308	20.7410	127.0512	39.4674
16825	83.4709	114.7785	54.4008	44.0730	20.6616
10743	83.0529	21.9640	9.7889	71.5806	54.4163
18269	82.8020	117.6146	33.9108	186.0563	54.6026
16982	82.2690	4058.3086	1627.4436	1558.5773	866.3594
15767	81.8301	45.3887	14.6625	83.9292	29.2272
1973	81.5897	167.2445	49.1889	266.5688	74.9606
2629	81.5583	388.4429	134.0744	194.9359	116.3658
16168	81.2578	3890.6780	1055.8008	2282.2991	981.9310
23709	81.1690	29.9070	11.5706	62.5262	27.7667
1070	80.5759	29.0704	29.4867	-3.5488	14.7903
764	80.3982	20.1445	7.6809	39.8514	17.4269
11153	80.0873	175.9210	65.1418	279.6470	82.9587
11152	80.0376	44.2105	26.6982	98.1310	45.4385
8317	79.9775	153.6095	29.9265	246.4819	102.2146
11493	79.9044	176.7860	142.7220	29.9996	42.8178
21154	79.7946	74.1387	26.7044	40.8988	15.5973
13646	79.7659	1979.7993	267.9795	1609.7607	281.9664
25701	79.7267	57.9422	14.0652	88.4730	25.8713
15309	79.7162	20.8907	8.0195	12.7204	8.2491
18349	79.6248	365.4965	119.6195	219.9336	88.4779
21380	79.1545	305.5067	59.1529	200.5509	66.7161
17933	79.0029	541.3936	232.4814	240.8545	122.0756
16381	78.6345	277.4561	61.6512	434.4310	119.2121
17634	78.3549	18.8527	23.3099	84.9381	63.7261
21115	78.3523	124.9092	65.5060	38.3695	43.2656
23716	78.2217	110.1323	47.8560	69.1350	21.5878
21800	78.1537	53.1997	15.2080	85.3128	26.7831
21239	78.0832	585.2732	141.2577	418.7661	144.7688
23130	77.9735	233.1324	92.6387	406.8837	140.5631
14751	77.9421	65.8565	18.1193	38.9691	16.2123
17316	77.9212	83.3056	38.2968	34.1382	26.6599
11494	77.8506	565.7846	431.8977	159.6069	110.8822
17815	77.6939	17.3178	7.2890	32.2153	15.7582
353	77.6808	852.9399	425.5131	400.8225	230.1746
15394	77.6730	557.7780	124.0581	407.1655	131.0936
17934	77.6207	517.9127	219.6789	277.9530	125.5943
11849	77.4509	2177.2773	490.0260	1577.1428	324.0204
15187	77.2628	40.5859	21.9039	92.9965	50.1820
5667	77.2314	2235.2120	348.2134	1839.5770	346.9847
1214	77.0929	11.7991	7.9550	34.1197	25.2526
14970	76.9518	26.9058	15.8550	59.9324	25.3271
15023	76.9022	279.9478	42.7704	362.5311	83.4497
17657	76.8395	68.2021	42.1245	23.9883	24.6140
765	76.7820	6.4086	8.7280	22.4968	14.7673
10744	76.6722	15.9966	9.3123	53.4795	48.5483
22822	76.4397	458.3923	157.3067	552.9301	109.7061
19422	76.3718	34.4817	10.7889	58.3918	27.6854
11852	76.3195	91.9410	73.1384	148.5494	53.8293

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TABLE 52: HEPATITIS					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2628	76.1784	436.1843	213.0145	179.4218	127.9568
1694	76.1497	3266.1452	538.6948	2456.2282	608.9672
13574	76.0399	174.6385	32.3433	222.9816	40.7918
11202	76.0007	60.8169	15.4505	80.5847	21.9097
20735	75.9981	1593.2100	520.8997	1000.0609	328.8578
17532	75.9798	99.2118	55.2783	198.2824	72.1557
25075	75.9485	358.3473	124.9477	221.4098	91.4913
21989	75.9380	175.5415	54.4137	109.7255	32.2207
4449	75.9197	4.5093	16.6691	30.5364	22.8176
11975	75.9093	28.3813	17.9498	7.1502	18.7183
17214	75.8988	435.9610	118.3101	301.8016	107.3091
16918	75.8884	4185.9263	1129.8202	2990.4419	858.8276
16382	75.8309	23.2828	8.0570	41.8032	21.3413
1813	75.7786	129.2527	63.2652	50.3729	63.6738
24377	75.7499	122.5253	14.7475	163.3678	44.3076
5319	75.7003	19.5563	9.4048	33.5767	14.5193
1159	75.6480	208.9188	126.1152	303.7595	88.1086
24196	75.6166	64.8069	50.4236	17.3955	14.4434
13647	75.5879	2814.1592	558.1760	2102.3020	483.2906
21670	75.5879	183.7840	61.9944	118.4080	43.1473
11895	75.5696	48.2860	16.1650	74.8018	23.7806
12070	75.4677	55.6364	20.0168	34.6434	17.3853
19087	75.4285	36.8420	11.2203	22.3112	12.6426
20734	75.3972	1478.0642	476.9719	954.6584	322.7892
15560	75.3867	136.4606	64.6114	65.8373	38.1477
15587	75.3083	24.5722	15.1460	6.9829	16.4106
16929	75.2979	2484.3886	384.2647	1966.2037	391.5165
591	75.2665	58.7470	25.6707	36.7582	16.4524
777	75.1777	39.5563	31.1584	54.8434	23.8927
21625	75.1280	3148.2362	1006.6053	3884.1949	871.0939
11210	75.0862	70.7739	30.7697	36.9697	18.0365
1141	75.0287	168.1481	32.5545	225.5378	56.5967
18043	75.0261	279.9371	159.1732	131.5777	71.6814
22124	75.0261	236.9994	99.5636	127.5256	53.5048
18582	75.0078	130.1573	70.3324	170.3570	58.0896
22538	74.9791	73.5550	28.4115	113.5704	39.1371
16947	74.9686	221.1714	111.0490	349.0676	138.9967
2696	74.8667	2149.1914	563.6595	1590.4105	450.1424
25686	74.7962	2235.8942	543.3956	1719.2231	365.4556
4360	74.6995	26.5103	20.1239	85.1898	86.8045
1885	74.6682	30.0602	12.6612	48.7448	17.3167
1624	74.6473	95.3350	30.3341	139.3809	33.9487
15011	74.6264	255.1473	64.9830	168.4456	59.0836
939	74.5584	-3.3237	12.5385	21.9320	31.5323
22424	74.4879	18.3545	13.8334	33.2672	16.9093
3431	74.4853	4072.5537	1186.1742	3088.4531	770.4321
25170	74.4252	141.4204	59.1376	78.8219	31.3663
16871	74.4069	14.4121	15.4310	23.4612	13.2409
22084	85.9270	62.4333	21.8589	112.6180	33.9160
9615	85.5952	239.7869	67.3362	99.3914	63.3302
13634	84.1529	4996.2973	1519.3141	2809.7099	971.5073
5084	83.3612	294.0297	79.4167	185.1205	51.7026

TABLE 5Z: HEPATITIS					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21242	83.3116	151.9625	138.1163	208.0112	81.1402
14666	83.2724	88.5724	17.7302	145.7812	43.5756
22876	83.0607	170.8576	54.5152	102.9706	33.4898
1923	82.7602	673.1085	210.4496	339.3562	148.2528
7451	82.6296	1276.6463	533.6247	825.7333	210.1066
4190	82.3892	182.8813	79.7920	100.9990	36.6637
12698	82.2586	522.7883	418.3798	83.9344	128.6267
11961	82.0600	98.1475	26.5050	58.7106	31.0382
14910	81.9685	215.6311	62.2588	142.8822	35.5228
14051	81.5975	628.7327	224.0268	335.9601	95.9742
14547	81.3284	220.7907	63.9512	114.0023	65.6567
20397	81.1376	974.7654	153.7453	774.6436	118.7249
5953	81.0671	709.9478	266.1126	329.8687	157.3596
22581	80.8163	115.3544	84.8568	15.8018	45.7313
10569	80.7666	448.5527	138.7773	349.7347	79.6895
21747	80.7379	423.0711	94.8841	580.9749	116.1321
9808	80.5863	155.3530	60.5416	83.1713	35.3937
4952	80.5759	1914.7353	721.7955	911.2766	320.8732
2702	80.5759	1408.8263	614.4806	805.1660	267.8061
17722	80.5367	362.9406	82.0372	258.5002	63.2102
8917	80.5262	123.2635	51.6397	52.1895	42.8320
6567	80.3459	502.0158	191.2852	301.9130	121.9880
1924	80.3459	572.4492	186.9756	372.2831	103.3418
7733	80.3172	140.1477	32.7510	213.2120	52.7084
8164	80.2153	186.3179	70.8419	105.3034	39.8558
24629	80.1369	203.5259	87.3549	346.9567	103.8286
2226	80.0768	95.3712	40.4278	176.2061	57.3069
16727	80.0455	431.0766	129.8563	263.3046	90.2573
7414	79.9958	864.2771	186.1109	615.2510	156.9504
3191	79.9749	1548.5947	581.4653	1017.8877	286.4492
13757	79.9462	59.0958	28.8379	111.6187	34.2196
14095	79.9070	20.9630	11.3822	48.5823	23.8510
15553	79.7345	603.1631	198.1433	412.2846	102.2321
16216	79.7345	1758.9173	910.6985	886.2697	409.7602
8205	79.7162	110.0101	40.6081	184.1397	55.9573
4067	79.6744	614.4872	278.7040	338.0376	134.3023
23424	79.4941	2060.6129	610.1403	1336.7043	327.4386
6306	79.4759	66.4447	23.8610	40.9871	25.9631
19082	79.4550	137.7013	45.9370	198.2173	38.9647
24375	79.4445	790.1714	231.5659	507.1111	147.3358
3959	79.4341	1675.6453	536.7153	1239.4762	281.4694
22545	79.4053	125.2064	96.8505	211.3155	76.7196
6382	79.1440	538.6601	229.4191	325.6712	164.7698
22453	79.0447	60.4096	21.5456	95.2918	26.3889
17761	78.8749	33.5463	16.2710	54.0853	18.9386
18607	78.8043	8781.4256	1741.2234	6338.1470	1818.2486
21437	78.8043	1020.0419	267.5101	843.6053	215.4135
16688	78.7834	1020.1075	225.0409	680.5227	186.9957
7243	78.7233	196.0926	49.4628	133.3896	38.8669
16756	78.7024	932.1832	256.7963	660.4284	120.9812
24338	78.6842	172.3141	46.2951	240.3927	48.4484
23010	78.3941	17.8737	13.7450	42.0593	22.6612

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TABLE 5Z: HEPATITIS					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13614	78.3628	131.4099	104.7556	179.2690	61.3323
19015	78.3549	102.7077	27.8608	160.4906	57.9619
2781	78.3523	311.2664	115.2499	135.2839	89.3408
24411	78.2321	585.3733	235.9363	439.4223	118.0186
2788	78.1224	404.1409	96.0448	251.9156	86.3364
22535	78.1015	1169.3110	438.1871	735.5884	197.9973
18507	78.0832	2235.7493	336.7923	1674.8237	442.4026
23224	78.0518	512.8645	161.7831	315.6715	100.5957
24315	78.0231	42.4720	17.3132	71.6253	22.1829
8924	78.0022	91.4743	24.2314	57.9379	20.5043

TABLE 5AA: GENERAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
353	74.0321	692.7234	362.9495	349.9497	169.2757
1598	73.4710	599.1281	449.3629	217.3142	142.1956
11852	73.4239	100.5743	53.8028	154.1401	48.6981
20735	73.1696	1324.4889	395.8647	949.1041	300.8814
21882	73.1317	539.8201	145.0010	688.7161	144.9034
15587	72.7956	21.2525	20.1889	4.6272	13.9118
14633	72.5712	327.1695	148.2764	524.2631	194.9081
20404	72.4417	114.0670	110.8554	229.0409	113.5475
591	72.3206	55.0132	26.3119	34.1529	10.9023
22412	72.2057	1072.5428	530.0458	583.6865	384.8233
24431	72.1959	721.4395	470.8528	340.2377	221.1622
15618	72.0859	406.2550	176.2285	235.7101	81.9916
21090	72.0248	70.5012	36.2412	116.7641	46.8036
22124	71.9087	190.9316	74.0030	117.8924	43.8038
21989	71.8750	145.1150	44.2583	104.1433	27.2057
7914	71.8475	46.0402	22.5433	78.2671	30.6076
1548	71.4349	137.4011	79.3183	231.8854	89.0567
4573	71.3964	666.2563	208.0934	882.6272	210.8448
1868	71.2913	230.2194	213.8465	492.3068	251.3638
14347	71.2479	623.3370	248.5362	892.4155	266.5317
20405	71.0994	152.0776	99.0756	238.3884	95.8125
354	70.8249	868.7195	511.2622	431.7030	200.8464
24326	70.6960	1071.2451	290.6804	797.5744	193.7579
20939	70.5279	729.1519	256.2483	509.8097	125.1639
11483	70.4942	654.8177	379.8189	342.3612	171.6341
18396	70.4802	585.3864	243.6748	360.3017	158.1372
20650	70.4576	308.6839	222.0480	663.3898	384.1621
18867	70.4191	198.2808	111.8431	332.4534	151.3571
17532	70.3854	143.1703	63.3268	208.8527	72.2327
25643	70.2546	753.1101	271.9780	508.0578	150.4999
17075	70.2406	883.8372	182.6294	725.7951	135.3438
15335	70.0921	1017.7103	239.4712	800.7525	189.1824
15203	70.0823	304.2157	63.6765	247.8487	47.3821
4574	70.0108	239.1681	120.3283	342.7378	104.1101
16367	69.9820	398.9208	265.6084	642.3286	241.9901
15675	69.9631	443.0804	129.6439	552.2724	124.7812
15617	69.9289	286.4699	108.5804	187.2864	73.2466
18139	69.8965	171.5484	53.2971	224.8574	60.1979
17101	69.8482	590.1525	151.5619	433.3880	151.4834
1973	69.8005	208.0263	60.0121	281.3328	73.5208
1045	69.7944	110.2495	38.4770	80.7631	19.6760
15187	69.7913	59.2563	31.7309	103.5642	49.2894
20836	69.7620	52.0807	27.7433	25.1950	27.3040
20996	69.7565	329.6604	103.8115	236.2184	77.8784
24693	69.6660	438.5368	384.8746	803.8279	387.1573
626	69.5786	166.6740	106.2358	76.3273	52.3556
20649	69.5615	150.9084	128.4660	396.1615	325.9925
110	69.5615	151.0678	78.5269	250.1823	135.2514
17908	69.5548	720.3978	366.6415	394.4135	204.4070
15372	69.5364	507.3505	95.5887	415.5391	85.2431
10306	69.4539	873.1074	417.3683	606.1731	136.5211
13283	69.4264	95.5529	62.9966	147.5981	61.9523

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TABLE 5AA: GENERAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19825	69.1526	50.8838	67.0311	76.2997	51.1551
12312	69.1300	50.2987	40.0155	116.9203	83.2128
5667	69.1092	2132.9599	400.8936	1797.5325	294.8194
15188	69.0572	155.6609	38.0339	189.3794	38.2636
17634	69.0004	40.4265	40.8952	93.4552	63.4947
25699	68.9710	18.5489	41.5945	59.1895	47.0093
17469	68.9521	49.4026	24.2334	74.2927	29.4056
15677	68.9380	234.6519	93.1734	355.8232	142.9614
21014	68.9191	494.3048	249.2701	876.6787	428.7473
15186	68.8995	87.0788	29.5946	124.3334	41.9472
805	68.8989	20.1182	11.8656	29.4041	11.4480
16381	68.8702	364.5739	130.2476	453.5329	113.7721
19073	68.8408	537.8997	117.9775	442.4556	88.1764
25701	68.8366	73.0012	28.6946	91.3003	24.6564
21400	68.8231	231.6397	100.2767	384.0433	156.4185
614	68.8078	275.6675	110.9096	385.0770	108.4595
16417	68.7883	210.8167	54.4458	158.3638	42.8356
21654	68.7736	1063.9668	258.7330	820.7588	174.7741
17913	68.7540	282.1702	93.5028	219.0866	46.8677
23524	68.7455	549.1319	191.2665	366.8981	181.0471
4002	68.7174	74.6716	26.6235	107.4937	36.9586
15274	68.7125	29.5372	14.2193	47.8157	19.6676
20716	68.6734	374.7641	160.8670	529.0835	145.4192
352	68.6630	306.6724	192.9381	156.6950	89.7015
16947	68.5872	244.3381	134.3451	356.0835	121.3395
6626	68.5737	39.7689	16.9634	66.1550	31.5085
23716	68.5432	90.2374	35.2654	65.4019	16.8221
23522	68.4912	315.8414	82.4292	242.7565	71.1938
25039	68.4674	387.2103	166.7423	503.3856	147.4479
108	68.4533	1128.0051	390.1604	1557.3672	424.8659
23180	68.4283	1609.8222	381.4548	1323.6010	205.5831
15281	68.3757	683.0733	223.6197	524.9034	147.6041
21012	68.3677	739.9671	352.3844	1259.1706	570.2972
16610	68.3665	548.9744	149.5548	423.1316	125.9526
21670	68.3567	155.6078	47.1839	115.6712	38.8353
18107	68.2510	924.1819	202.9468	769.4648	135.0857
19824	68.1990	74.6104	49.6271	100.4621	43.5932
24862	68.1373	91.0102	39.9719	142.4224	55.4854
24649	68.1367	75.0187	25.8061	97.0217	25.2224
1928	68.1275	96.2260	33.1224	131.2243	39.0237
17806	68.1233	22.2768	12.6153	40.6960	23.7577
1524	68.1177	27.0611	27.7482	55.1315	29.3478
16929	68.1171	2287.7153	425.3548	1914.2402	351.2150
20973	68.1074	246.6275	65.4053	189.1352	45.7034
14970	68.0939	42.3349	24.3016	62.4884	24.1993
8317	68.0658	181.8533	61.7097	250.0281	91.1038
14959	68.0499	1994.3354	448.0566	1571.8780	352.6077
9620	68.0310	1577.5838	296.4106	1329.2951	260.3652
16726	68.0169	251.6105	84.0185	323.5295	81.2307
13646	68.0114	1851.6287	347.9763	1594.3948	218.7983
1495	67.9680	171.8535	60.4347	127.1234	36.0092
25366	67.9503	272.0973	135.9144	419.2906	177.7396



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TABLE 5AA: GENERAL		Attorney Docket No. 44921-5113WO			
Timepoint(s): Various		Document No. 1926271.2			
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
811	67.9399	65.5169	30.6198	90.7693	25.5775
1869	67.9209	433.8679	327.4946	739.7781	310.2369
10540	67.8684	20.1568	23.3063	34.2321	20.5508
24615	67.8629	2331.9255	566.7979	1893.0949	424.6438
14346	67.8543	503.3018	229.4127	731.9545	259.5389
16330	67.8402	133.8014	42.4711	189.3528	64.0235
19222	67.8152	982.4210	196.6385	846.7306	167.2438
11849	67.8054	1893.4224	394.3312	1522.1876	291.6655
18606	67.8054	2664.9736	651.9781	2069.8975	502.5380
16164	67.7865	1478.1431	259.1748	1247.1329	220.9209
18611	67.7816	3418.0776	883.3460	2664.3585	737.0040
1306	67.7522	207.1717	78.3694	142.8739	44.6007
17088	67.6563	474.1242	208.5444	322.1740	91.9528
13647	67.6471	2525.0523	589.3911	2047.6011	416.5734
18349	67.6422	294.1195	117.6643	207.9829	77.6041
25559	67.6373	230.9253	98.4724	157.5043	68.4359
1523	67.6336	128.1120	42.0616	164.5697	43.8414
4500	67.6226	59.1096	38.5607	29.0880	18.4448
17214	67.6135	391.6034	142.4139	285.1289	89.7938
18043	67.6086	205.1463	104.3035	122.5335	62.8304
11755	67.5664	474.8301	214.9675	684.0789	230.0926
22413	67.5414	678.4204	353.0301	410.7406	252.4150
17468	67.4998	338.5084	87.5959	427.4967	112.9246
16331	67.4900	349.7128	112.7166	452.7232	125.3677
23417	67.4845	593.2915	131.3584	474.2976	111.6135
1571	67.4790	722.9521	244.2123	544.2188	130.5005
699	67.4656	270.1676	78.6434	343.0756	78.6980
25691	67.4601	2599.5600	579.7413	2179.4241	388.8723
24442	67.4570	19.9257	9.3331	33.3109	16.9750
23679	67.4454	258.1254	131.5903	164.0676	68.0534
14138	67.4179	22.6549	8.9198	29.6368	9.7143
22321	67.3928	1207.5357	558.2971	788.6356	349.8854
12070	67.3928	49.8280	22.8104	33.6384	14.0420
17934	67.3879	392.4523	187.7043	263.3889	102.5792
16721	67.3843	99.6751	47.6790	127.8248	44.8695
19103	67.3610	63.4694	37.6263	116.9262	63.3872
16346	67.3543	217.6906	90.6712	154.6237	49.7685
19067	67.3519	11.4719	10.6897	27.9988	26.3498
43	67.2596	109.6957	53.4188	165.4349	56.6181
20427	67.2590	2038.7577	357.5337	1753.4943	286.0933
24196	67.2583	35.0973	31.6467	15.5356	11.0387
20701	67.2547	276.0749	193.6348	408.8686	181.3138
14751	67.2204	51.2111	20.5840	37.2979	14.7608
18419	67.1972	552.9760	148.6456	672.1064	139.8622
25070	67.1923	143.3052	96.2538	173.9231	85.1855
23248	67.1673	75.2964	60.5076	33.9812	25.2604
12118	67.1599	82.5634	28.5948	136.1014	78.2358
1531	67.1550	60.9802	68.8637	149.7093	115.8899
427	67.1550	1068.0988	589.8296	1801.5621	895.3841
135	67.1502	13.0401	8.8696	24.5275	16.2218
4439	67.1116	196.0337	59.7607	258.0295	77.5623
25363	67.1116	258.2741	132.4829	391.4265	167.9991

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TABLE 5AA: GENERAL					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24861	67.0542	36.8638	27.4659	72.5850	43.8430
317	67.0304	27.6561	11.8993	40.0026	22.8140
21940	67.0249	150.0644	47.4484	191.9609	51.5529
19472	67.0194	844.2025	168.8416	713.1871	137.4328
819	67.0102	1132.9342	644.7495	1628.2334	602.9989
426	67.0065	1675.4305	791.9692	2808.9105	1341.4561
17269	66.9918	114.4660	40.4721	167.0644	60.8926
109	66.9576	2644.8533	889.4365	3481.5066	872.7439
25777	66.9185	2154.5140	680.1775	1654.5605	479.8619
23883	66.9154	103.9199	68.0907	190.1233	122.1829
6055	66.9148	188.8685	117.4532	345.7444	163.2221
17393	66.9136	570.5503	144.5166	469.7320	102.0186
24204	66.9093	193.8335	49.8923	146.6209	44.4871
111	66.9002	2186.8805	708.7501	2847.7596	725.7520
15239	66.8995	1925.8901	437.0951	1603.9498	385.4584
23058	66.8623	14.3024	7.8791	22.1936	10.3690
2641	66.8280	38.9280	21.1149	52.2310	19.4740
1583	66.8128	156.4314	57.7071	115.1150	34.7386
23678	66.7791	163.7960	69.9989	114.5068	39.6921
3430	66.7455	661.8021	263.6805	479.8976	142.8995
107	66.7382	14.9317	15.7010	39.5313	34.5074
6108	66.6881	652.3621	235.1197	476.7377	135.1139
12031	66.6838	598.4982	130.2802	507.5051	103.3635
2854	66.6593	888.3158	272.7986	675.7638	158.4589
25747	66.6178	1533.5803	556.3787	2214.4017	753.4021
16366	66.6080	221.6847	108.5259	330.4026	127.9413
4449	66.5884	15.2562	20.5980	32.7416	21.1472
11494	66.5823	305.0818	260.3316	142.3909	85.8729
570	66.5780	326.5391	98.8342	247.7856	69.2074
20734	66.5542	1232.1162	391.7844	900.5633	291.6465
229	66.5450	83.7789	54.8800	119.2806	49.5770
17533	66.5365	56.3727	51.0882	114.2881	73.8841
20702	66.5297	73.9347	40.0039	47.7874	24.7609
12606	66.5120	104.6454	43.5076	151.9573	50.9873
16552	66.5065	53.5275	30.9350	75.9590	26.8923
2696	66.4967	1955.9891	547.2901	1525.7674	407.0880
20753	66.4967	459.0157	134.4877	352.4993	98.0205
20257	66.4405	42.4195	21.5003	66.8902	30.8067
20057	66.4167	27.2531	21.7606	58.1524	41.2157
17057	66.4106	199.4512	65.7071	147.4468	51.9027
4360	66.3928	33.3283	53.6379	81.9552	64.4548
12639	66.3818	3210.4144	679.9330	2643.1209	548.5944
24033	66.3812	83.8093	32.2152	65.2398	19.8005
15043	66.3623	264.3148	64.1411	223.6091	41.8365
9109	66.3537	119.7921	38.8113	152.7345	40.5745
16257	66.3390	162.4694	83.6277	217.5186	76.8000
7522	66.3250	30.0616	19.8065	47.3836	21.4359
16204	66.3146	2131.0644	412.0612	1834.0975	331.6266
11210	66.2901	50.2996	26.5866	35.7552	16.4904
15242	66.2712	97.1641	23.8141	82.5105	16.8239
20998	66.2486	472.9743	174.3291	652.7648	220.8584
15767	66.2486	65.8422	23.8211	88.0595	29.1786

TABLE 5AA: GENERAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271:2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
7936	66.2437	16.6720	8.8882	24.0093	10.6619
19712	66.2388	20.3168	16.3903	28.9965	16.2554
17394	66.2376	1288.7090	353.7702	1008.7226	232.3814
18430	66.2278	113.2082	67.5870	63.9229	30.7741
23368	66.2107	20.3403	21.2345	47.1079	36.0295
1383	66.2052	111.8411	35.7340	139.4404	37.6883
9527	66.1868	17.9802	10.5450	28.6865	16.1827
17292	66.1477	78.7465	44.3329	124.2901	51.0124
17891	66.1367	70.3185	28.8003	50.9460	15.1726
11296	66.1080	146.1472	60.1704	110.0776	26.6982
1639	66.0903	92.0820	32.2680	119.2868	35.1247
15312	66.0805	294.3315	103.4142	207.1141	120.2236
1159	66.0701	245.3912	109.5226	307.6586	76.6909
1529	66.0664	85.1275	35.3122	117.0652	42.9668
20082	66.0603	575.7399	196.1863	445.9630	136.5965
2629	66.0505	296.7655	164.6190	184.2016	99.5436
23312	66.0463	72.5097	22.4334	54.9709	18.7648
17379	66.0218	377.4942	134.8875	282.0095	85.7256
25686	65.9931	2035.3016	449.7057	1693.4908	321.9511
25550	65.9546	154.6574	54.8543	123.6021	41.5517
15822	65.9173	11.7022	17.1814	24.9213	17.8796
15876	65.9026	3230.7030	609.8504	2768.1187	529.8594
15024	65.8989	27.4134	27.9871	60.6851	46.7680
25907	65.8635	116.9683	71.3639	68.7305	36.9184
7784	65.8604	25.5009	12.8004	34.6472	14.4229
764	65.8604	28.6735	12.7535	41.5218	17.1244
22349	65.8549	208.7746	70.3545	259.5705	65.8964
15376	65.8397	294.0367	79.2498	239.5548	51.8214
12299	65.8317	358.7213	112.0020	502.6618	165.5580
1958	65.8311	1245.6992	578.8235	1730.1390	559.4083
15741	65.8225	237.2722	81.0986	341.6023	160.5494
9621	65.8207	864.7255	176.5473	740.0950	133.9352
24219	65.8060	742.9923	225.7029	583.7309	149.7714
15023	65.7883	316.4874	73.4033	374.2291	85.1829
20417	65.7633	351.2879	78.1352	299.4407	58.9483
11843	65.7547	32.2216	9.1279	38.7944	9.6515
21399	65.7455	-20.7676	41.8543	21.2428	58.3237
17115	65.7455	14.0664	11.6067	26.9757	17.5599
20493	65.7449	76.9048	38.6876	111.3048	41.5636
21657	65.7315	645.5215	289.3066	971.0064	414.0401
765	65.7168	13.4850	9.9010	24.3016	15.1275
6049	65.7150	1433.7374	382.7759	1174.5853	237.1500
21646	65.7064	108.2369	33.6061	135.9052	32.5995
1504	65.6813	29.8559	21.4771	15.1121	12.4453
17739	65.6068	16.9440	15.2770	44.3797	37.0083
6671	65.6068	88.9074	31.4962	125.2377	53.4872
24626	65.5952	2336.8884	454.1319	2030.0371	286.4623
16305	65.5823	205.1214	91.7889	268.0029	100.4687
5496	65.5774	111.2546	58.1674	161.9271	69.4038
17541	65.5579	2262.4550	769.8822	2974.8782	820.7942
18108	65.5573	838.4674	201.5580	693.1426	155.6378
2628	65.5328	303.8325	194.8401	165.2251	108.3583

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TABLE 5AA: GENERAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
4495	65.5328	84.5838	31.6614	61.9164	17.9680
22862	65.5249	93.4767	66.5391	166.3931	86.7807
5619	65.5206	213.0093	127.6901	404.8718	306.8388
22282	65.5090	184.3971	57.1084	136.7536	37.8320
1694	65.4998	2936.0574	682.9529	2378.7169	561.3930
21424	65.4913	331.9046	70.4474	400.4620	93.4611
23070	65.4906	282.1040	54.8299	236.2250	52.7888
11756	65.4906	64.1452	32.9564	89.8054	32.5140
18726	65.4674	141.4942	64.9878	204.1164	85.4717
1460	65.4479	1682.0890	607.0074	2241.3454	689.7468
23854	65.4424	1651.3798	410.7172	1374.9469	361.0096
956	65.4381	336.2637	146.2018	442.5485	157.1418
16180	65.4191	69.3244	39.8564	98.6787	40.7600
17805	65.4093	484.1715	232.8547	666.3691	240.1489
1466	65.3983	1811.0285	1113.8380	1143.3410	362.6810
4433	65.3892	151.8229	40.2502	125.6042	30.7430
24577	65.3843	2578.6904	662.9402	2093.4336	440.9315
15662	65.3745	181.4169	64.7198	140.0028	32.4521
21643	65.3653	2720.9056	723.5487	2211.4493	557.3697
1678	65.3427	16.0387	28.6562	42.5157	38.1464
4280	65.3421	529.0958	244.4002	729.2630	255.5387
1624	65.3134	115.6033	30.6138	142.4118	32.6309
10108	65.2694	268.3551	102.8174	193.8306	69.3436
24377	65.2657	141.1311	41.7546	167.3622	42.6768
25370	65.2608	49.9566	52.3378	71.8817	47.0478
10878	65.2602	2116.8728	431.6651	1804.2486	391.9401
17933	65.2498	368.9582	208.5070	224.9608	94.1969
10743	65.2376	42.1353	29.7913	81.7292	56.9141
19241	65.2358	241.7675	78.3112	187.7360	63.1238
1570	65.2260	658.9835	222.4912	542.7178	142.9697
22841	65.2070	296.5890	100.3879	228.5580	75.1357
3831	65.2021	169.6451	77.1730	121.9725	55.5394
10744	65.1850	26.6783	24.3572	61.6850	49.6437
17997	65.1795	34.3977	19.5209	51.4812	22.5664
15127	65.1704	1019.3167	362.1775	1365.9152	522.2876
13488	65.1502	21.6473	12.4256	30.2838	11.6022
18995	65.1349	95.5210	37.2191	71.4016	21.5182
16047	65.1318	74.3942	27.1701	99.2455	37.4243
19584	65.1080	93.1027	32.1607	122.8589	46.1768
1483	65.0921	15.2616	22.1926	25.8216	17.8058
6107	65.0823	700.2770	266.8170	504.8760	183.1132
23130	65.0689	315.3919	132.6297	413.2916	130.9768
10509	65.0505	24.4164	11.2900	34.6748	17.5710
18400	65.0438	71.8474	33.8238	54.3463	18.7985
20995	65.0249	164.2948	49.4718	125.4345	33.4305
690	65.0127	38.9271	15.9479	63.6641	47.5083
25586	65.0010	24.7780	14.6240	14.4389	11.7163
4952	78.5192	1380.9360	482.7033	829.8950	239.0741
2702	76.3187	1168.1462	425.2663	748.2829	193.4351
21458	75.6910	3496.8084	1247.3503	2173.4521	716.8293
10986	75.2796	46.6952	29.9517	94.7862	42.2081
18390	74.2968	17.9320	18.2605	38.1379	19.2291

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TABLE 5AA: GENERAL					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
7003	74.1097	81.0580	37.8317	126.6516	43.5081
5258	74.0566	136.6387	59.8127	204.5130	47.8069
22084	74.0089	84.7361	33.6910	119.6805	30.8231
14458	73.4520	687.6411	357.2614	352.4508	143.7027
8949	73.1837	1280.7274	336.7235	943.6344	221.9727
2781	73.1837	224.1226	119.3579	123.3802	77.3675
14181	73.0749	32.3028	15.9941	52.3541	22.2146
2768	73.0022	593.6722	356.7375	959.3549	312.4253
3934	72.6959	196.5435	160.6860	430.1645	211.4619
13757	72.6000	84.2381	25.8884	117.0043	32.4902
21457	72.5126	507.5559	275.3451	255.7491	134.9770
1690	71.9948	288.5526	94.2233	210.0669	54.3538
24338	71.9716	200.9564	46.8430	253.7590	44.1920
10611	71.8231	37.8823	45.7182	80.9299	42.4387
23299	71.7791	1843.0754	765.6514	1121.6127	388.9272
6828	71.7082	237.9910	118.6860	369.8981	134.7022
3079	71.6654	194.9861	83.3728	310.5713	117.2976
18115	71.5217	47.6836	43.9067	125.7368	78.7737
20350	71.4979	31.4581	29.6214	89.4618	61.6919
16	71.4105	239.1320	131.6956	337.1042	107.2602
10087	71.3109	181.6394	83.0692	308.3385	132.1895
21125	71.2100	10.3071	38.9491	57.9483	49.9394
7414	71.1898	762.3626	181.9436	591.3788	134.8170
11714	71.1471	160.0486	118.0430	246.5377	97.1934
2752	71.1281	207.0326	88.8032	312.7375	94.9099
3730	71.0040	349.3090	188.6175	640.0756	294.4819
2308	70.9783	161.6741	105.5891	77.8049	41.8595
13286	70.8219	170.3315	105.1703	311.6753	145.8988
22644	70.8213	43.0877	20.2862	64.7883	20.4637
3493	70.8060	145.1648	67.5713	89.4607	34.0925
15240	70.7974	520.8184	321.0118	879.7558	348.9597
23270	70.7534	1140.6161	327.2987	805.3361	218.9328
12946	70.7015	113.1662	53.9223	166.3840	53.9845
4177	70.5230	340.1959	190.5257	189.6575	77.4049
12614	70.5089	249.7121	87.4484	172.2689	50.9014
6334	70.4949	307.8160	75.8561	240.3516	59.9585
23681	70.4515	521.3721	150.8543	387.0621	91.9669
21023	70.3561	85.7630	35.6474	116.1509	35.6290
16727	70.3268	360.1987	115.6635	252.8729	75.1248
6188	70.3029	135.7908	79.0244	184.8474	50.2931
10281	70.1941	82.4835	93.0445	206.4619	146.0176
18909	70.1458	208.8729	128.8100	393.9070	181.6341
15026	70.0921	1204.7528	201.6737	1039.1938	147.4988
22415	70.0921	2865.8357	1236.6601	1895.7675	1167.9985
16216	70.0774	1349.7527	631.7780	820.8292	309.6302
12802	70.0101	541.9115	207.2651	389.1209	118.0452
2226	69.9441	130.1020	51.8907	179.6150	52.1077
22688	69.9062	112.7683	70.2995	215.8318	110.8484
4067	69.8903	474.1967	209.8396	321.1204	117.3232
15241	69.8579	123.0267	61.6666	192.4445	66.3492
12309	69.8152	70.9944	40.4329	124.8240	56.0139
18350	69.8042	305.0846	107.8385	211.7632	67.6987

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TABLE 5AA: GENERAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18271	69.7956	131.6482	81.9083	199.1546	75.7482
5079	69.7956	45.5057	22.9042	67.4864	24.7604
21341	69.7712	128.2900	155.6429	181.0537	139.8703
23558	69.7284	110.3281	50.1380	159.2115	53.6717
6295	69.7100	202.2616	113.0956	379.2805	205.4665
9312	69.6905	24.5227	11.8148	37.0343	14.9624
18910	69.6232	102.6376	85.3177	207.7916	112.9688
2587	69.5756	407.4747	194.0781	721.1407	343.7025
19187	69.5646	552.2678	193.5776	405.3891	125.4656
2296	69.5511	339.3849	153.2533	523.3942	171.6598
12999	69.4490	296.0335	125.9327	198.0692	47.2314
15684	69.4448	1192.8592	271.3194	990.1458	177.3934
1397	69.4069	117.2647	30.3089	88.6811	28.1221
23983	69.3500	143.6945	112.9278	271.3302	130.8724
21213	69.3152	855.7283	296.0551	631.2136	180.7646
3246	69.2864	152.5247	74.7983	98.8264	43.2822
2596	69.2834	39.7956	31.0793	91.7318	66.5682
4047	69.1856	1082.7120	589.1053	601.7764	293.7781
11934	69.1330	370.0794	89.7910	297.9478	58.1124
23464	69.1141	516.6542	144.9949	409.3416	103.9649
3081	69.1055	183.1731	63.6589	245.6238	74.3151
5979	69.0230	303.2753	98.1749	216.6214	69.4773
9547	69.0193	120.4813	45.8703	170.1889	58.5068
4440	69.0053	83.3528	33.7688	135.6657	59.4309
4828	68.9649	72.9557	43.0516	43.2301	18.1022
4479	68.9509	2128.2199	785.7217	1380.3135	481.7303
8314	68.9509	1748.7842	947.4333	1046.3157	509.6676
2297	68.8849	306.9007	143.0584	475.9000	168.5143
10080	68.8659	208.2363	95.3370	343.6579	134.1518
10569	68.8647	420.0206	111.5716	336.2579	67.4437
21740	68.8604	335.3288	163.6891	452.1302	141.8450
4679	68.8415	70.7112	35.6696	101.2058	34.0050
14664	68.7926	449.4157	160.0542	320.1835	79.8585
18524	68.7602	479.7140	242.2044	798.9120	285.7968
22076	68.7363	66.3065	120.1228	191.3693	148.2324
11478	68.7363	59.8391	30.5898	92.1731	35.3226
6240	68.7351	140.7640	113.8483	51.1735	72.2511
11411	68.7210	493.3294	101.0576	397.7069	73.6291
13634	68.6825	3734.7699	1259.4354	2601.6015	858.0332
21020	68.6728	137.3744	71.2974	79.3627	45.6250
12713	68.6691	198.3838	57.0308	252.5748	62.4565
19258	68.6593	64.5293	97.5883	150.9686	102.0385
9757	68.6116	226.8654	86.0729	317.2582	92.8840
16688	68.5915	873.9645	234.0155	653.3143	162.8972
2364	68.5878	439.3924	80.0675	525.4556	100.2198
17721	68.5878	84.4527	45.0652	130.3623	58.2006
6284	68.5438	36.9434	18.0322	47.7690	14.3122
20764	68.5291	75.9727	33.7190	101.4901	23.0193
5169	68.5199	1294.1642	272.2527	1012.3391	236.7067
3411	68.5163	346.3567	191.4244	563.7495	253.7300
5134	68.5096	57.5026	45.3509	29.8086	22.3481
5355	68.4820	696.3212	361.5834	1121.6300	396.1451

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TABLE 5AA: GENERAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6632	68.4619	627.1740	191.3880	467.3563	114.3622
21056	68.4478	466.4872	120.8088	368.5099	93.0039
16058	68.4283	345.5074	141.2590	226.2417	82.5197
23499	68.4246	91.6798	42.0498	131.3763	45.0374
7074	68.4056	41.1339	16.8894	55.6278	20.2907
22543	68.4050	215.7534	109.1552	289.4168	98.2545
4719	68.3910	46.5350	23.8465	67.0565	23.9299
22503	68.3726	39.4874	28.2193	86.9832	55.9353
24315	68.3567	57.8882	26.5133	73.4524	19.6711
3990	68.3482	73.7562	22.7583	96.9086	26.9361
22911	68.3433	52.7237	32.8041	84.7760	40.2596
14313	68.3042	12.5743	50.5306	37.2762	40.6449
11830	68.2614	319.1448	101.7538	416.3463	100.9309
8715	68.2290	191.5732	125.2165	407.9751	283.6740
18932	68.2186	34.6703	23.7168	57.3116	27.7398
10920	68.2094	37.4480	41.9658	89.6100	62.8764
5874	68.2045	50.4558	21.3568	75.0578	31.4042
2729	68.1801	374.0755	184.9500	542.7368	186.6862
8730	68.1709	49.7271	19.6661	69.6548	26.3633
22558	68.1709	313.2676	221.3398	581.5696	296.5432
13055	68.1605	319.3971	171.5159	412.6381	144.6149
15416	68.1226	13.3786	12.6588	25.3575	14.7105
17793	68.1122	166.0617	62.6963	113.7718	46.7785
8436	68.0792	1117.8952	637.2028	1756.5499	630.8623
2911	68.0744	172.1192	132.4224	272.7135	115.5896
17755	68.0554	158.9817	100.1329	247.5783	100.8276
8500	68.0511	571.5467	442.3438	1133.4581	653.4591
3364	68.0218	92.4530	37.9342	132.0197	41.1802
13903	68.0016	74.8909	38.6042	45.1563	23.3742
7451	67.9967	990.0853	338.1618	784.4295	175.8447
14677	67.9937	97.1277	67.9184	152.7724	74.1339
1599	67.9869	354.9231	250.8783	157.5306	133.7963
12628	67.9698	72.9421	56.4314	161.8187	113.8184
19016	67.9692	272.3102	87.1540	348.1016	93.1420
24236	67.9154	210.0703	69.1529	154.6757	41.5715
16172	67.8928	24.6428	68.5319	120.0844	100.4551
22079	67.8824	1864.5198	777.0811	2472.4661	641.5331
6297	67.8635	73.6206	55.6640	123.7171	55.1561
6687	67.8482	252.5414	84.4886	193.8123	42.6956
13501	67.8433	77.0534	44.0940	45.1108	19.8796
24629	67.8060	283.5514	103.6825	367.7265	101.0097
21894	67.7956	249.5995	112.2144	161.1367	72.6780
20857	67.7681	50.4099	26.7199	72.6768	29.7534
8205	67.7583	143.3135	49.2822	195.6209	53.2744
9168	67.7571	271.1517	131.5232	173.6676	75.2473
7288	67.7302	64.5863	44.2720	118.8940	70.1369
10879	67.7247	60.8570	35.5292	90.5411	35.6599
17229	67.6997	905.7618	178.5880	768.8854	124.7699
9575	67.6715	915.2495	190.7941	746.9526	170.7976
16678	67.6483	-18.1057	46.4995	29.3880	60.0088
15122	67.6471	235.8309	72.0374	269.4921	47.7364
2536	67.6196	128.2393	63.7874	174.5912	66.9057

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TABLE 5AA: GENERAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
7935	67.6190	265.8129	81.1131	335.4534	76.4223
5902	67.6037	84.2627	39.2120	57.7772	22.4187
17340	67.5994	790.0630	324.0040	976.2955	250.0339
19269	67.5799	1137.2970	280.2994	968.2988	165.5552
15959	67.5762	65.4340	20.4691	83.1028	21.5135
4005	67.5621	137.5915	88.9590	232.7084	121.1282
22753	67.5621	128.7867	86.6397	223.3912	117.4626
2639	67.5279	103.0229	76.4464	164.2121	70.8394
8795	67.5175	208.5626	98.1766	125.8190	60.4295



TABLE 5BB: HYDRAZINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25247	97.9460	37.0767	0.5814	53.3339	16.8255
1888	97.4765	113.6533	1.3258	107.0621	63.1462
3880	97.1244	95.7567	0.7557	92.6252	29.5970
11662	97.1244	84.6267	1.0501	77.5572	27.9175
18327	96.9484	51.6967	0.4065	52.2675	22.3585
2577	96.0094	155.5333	2.3953	177.7987	47.1143
7062	95.5986	288.5300	7.4707	477.7241	236.0127
16954	95.5986	264.9633	11.6139	147.2295	103.8173
25907	95.4812	87.2333	2.5134	80.0068	49.8692
20896	95.4225	29.7233	0.5270	30.5215	16.3305
6951	95.4225	76.0767	2.7062	71.8819	36.7998
25328	95.3052	57.7867	0.9437	63.0813	21.9695
968	95.1878	25.0033	1.0496	37.5884	39.1871
25649	95.1291	22.2767	1.5474	37.5620	28.9002
25209	95.1291	181.0867	2.0510	173.0712	35.4332
935	95.0117	84.1933	1.3105	76.3168	22.2118
20941	94.7770	992.7433	20.2695	1032.2932	353.3071
16115	94.7770	48.3833	1.4760	37.7177	17.5566
18795	94.7183	390.3567	8.7339	322.6620	104.0070
15872	94.6596	710.0433	268.2124	291.0634	134.2337
23341	94.6596	469.0733	8.4223	372.9566	112.7619
2846	94.5423	36.1633	1.0401	51.8978	19.4627
1309	94.5423	67.0933	1.8506	56.3164	22.8219
25425	94.4249	35.8367	1.1033	49.5267	25.9994
602	94.1901	39.9033	1.3167	49.2863	18.5145
26030	94.1901	2096.7033	56.8085	1680.9026	522.1836
10427	94.0141	23.7833	1.4340	3.3521	19.7205
15489	94.0141	70.3233	1.3064	59.2828	16.8143
15741	93.9554	192.5533	6.8674	335.4640	172.5203
14971	93.9554	45.0633	0.9015	55.1948	20.5650
19181	93.9554	124.8333	4.8168	91.9527	22.8895
21657	93.8967	578.5067	16.0717	887.3359	406.1971
17999	93.8967	950.7333	15.8186	965.6669	264.0766
20270	93.8380	55.1533	2.1428	93.3423	39.8536
18274	93.7793	96.6233	3.1602	74.5662	19.6116
5167	93.6620	7.6800	2.0657	42.7227	71.1021
25643	93.6620	430.4600	14.4180	547.0496	209.6484
18456	93.6620	52.5733	2.0669	44.9901	22.6192
1339	93.6033	24.5000	1.1459	18.4546	9.7650
25279	93.4859	368.2933	21.2953	518.1852	152.7293
21005	93.3685	125.2567	11.1090	83.4001	29.9791
15857	93.3685	167.0033	3.5050	171.8486	45.7847
25747	93.3099	976.7667	179.6152	2040.7425	745.5405
1620	93.3099	171.6267	3.8925	173.9528	60.1149
11940	93.3099	42.5467	1.3651	51.0578	16.3335
455	93.1925	182.7333	9.9242	238.8213	147.2915
13731	93.1338	53.2867	16.6290	22.5796	17.5057
1169	93.0751	135.7433	5.5119	178.8236	85.4068
14213	93.0164	20.5900	1.5045	2.4961	26.2752
17421	93.0164	228.2467	129.1290	208.2349	59.7431
20493	92.9577	142.1467	106.3012	108.8341	46.6047
15025	92.8991	8.7100	1.9984	76.0668	139.9238

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TABLE 5BB: HYDRAZINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13857	92.8404	24.9567	0.9209	33.3204	17.9828
13485	92.8404	25.2000	2.0544	43.4119	19.0244
4393	92.7817	1970.1900	41.8934	1724.5740	456.2191
595	92.7230	9.8400	0.6451	20.9080	23.6445
25148	92.6643	511.0967	96.2026	358.4566	90.5520
18378	92.6643	74.7900	40.5974	61.2654	18.1555
20410	92.4883	59.5833	1.6694	71.4859	46.9878
12155	92.4883	-19.0933	8.1364	83.7093	168.3485
20312	92.4296	19.8167	1.4374	31.9382	12.7655
317	92.3709	12.2500	4.5821	36.8986	21.0418
17309	92.3122	58.9033	1.4200	59.9175	15.5742
18880	92.3122	38.1433	1.2894	38.2827	14.6705
24564	92.2535	36.2133	3.0365	27.5676	15.6279
20740	92.1362	1127.1233	89.5392	820.3090	345.3077
15803	92.1362	-5.2333	4.8046	29.6186	26.3161
23653	92.0188	24.6667	42.0186	18.9945	20.2387
13646	92.0188	1826.3033	41.6292	1618.9876	287.9917
1573	92.0188	15.9233	0.6834	20.3821	10.0022
15103	92.0188	175.3967	2.6008	185.5519	31.7783
8182	91.9601	617.1567	42.3489	815.9132	301.6696
20841	91.8427	149.5833	9.7877	106.1587	32.9275
15839	91.7840	434.6200	11.9903	379.6704	118.3617
14979	91.7840	23.7900	1.1466	22.0707	11.0596
16155	91.7254	78.1967	4.2150	96.8869	55.4332
20939	91.6667	806.2700	114.4604	546.2456	181.1310
16997	91.6667	14.6833	1.0970	20.7622	13.1709
20269	91.6667	71.7333	3.3988	61.1172	28.6563
19997	91.6667	103.7800	5.4674	83.6345	42.5927
18190	91.6080	31.1767	2.5152	22.2287	11.4849
18001	91.6080	329.1600	11.2699	357.4035	125.4645
25120	91.6080	17.7867	0.7353	20.0385	9.9765
19710	91.5493	251.3100	8.9243	257.6204	98.8017
910	91.4906	152.1333	10.1794	111.0717	40.2252
891	91.4906	420.8000	41.8302	792.1574	366.2510
18305	91.4906	3836.9500	112.5191	3317.2844	882.0977
20430	91.4319	45.6033	11.4721	209.4796	180.3662
16368	91.4319	26.0500	2.0126	20.4152	15.5957
20235	91.3146	32.0133	1.9444	41.3535	22.4684
18209	91.2559	127.9733	8.0882	173.3853	51.8906
1660	91.2559	47.7567	3.9689	25.5445	33.7402
1501	91.1972	1352.6200	202.5585	2213.4966	566.4025
12422	91.1972	140.0667	4.9274	173.5576	54.8378
20357	91.1385	58.8067	2.6243	63.0280	33.7813
4364	91.1385	105.2867	6.3137	82.5090	35.4553
16535	91.1385	1171.2133	48.6359	1431.9100	506.6838
17108	91.1385	132.0967	3.3524	140.5891	35.7544
15569	91.0211	34.5067	1.3274	37.4447	17.2194
20026	91.0211	89.0467	4.8233	76.8488	33.4835
6241	100.0000	50.3233	0.0058	50.8960	27.2440
16909	99.1784	445.4700	5.4319	308.6417	62.8504
4814	98.5915	14.1600	0.3700	30.4624	26.4002
17632	98.2394	82.0300	0.4687	85.7136	36.0800

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TABLE 5BB: HYDRAZINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23403	98.2394	137.4167	0.7186	158.2033	48.0129
14745	98.2394	22.1300	0.4173	31.2172	31.9228
3317	97.7700	34.8767	0.3450	34.0734	26.1690
6315	97.6526	70.2300	0.7873	84.0403	35.3586
16986	97.6526	1294.2167	26.9886	988.5831	746.6562
3584	97.2418	29.1200	0.4419	38.5215	23.2124
9510	97.2418	26.4000	0.5556	20.0571	18.8305
10156	97.0070	652.5833	19.6801	441.7665	187.3169
20694	97.0070	214.4467	3.9028	140.8560	55.8960
12000	96.8310	380.4833	55.5277	190.4899	68.9239
13776	96.7136	34.2900	0.5534	28.8459	25.3090
23325	96.7136	224.8233	1.8600	246.4426	73.0295
23583	96.7136	120.0533	48.4725	48.9943	21.7321
994	96.7136	578.4300	6.6111	726.9823	188.7234
8365	96.4789	50.8167	0.4539	47.6431	17.1295
16199	96.4789	86.8033	1.4558	62.4798	34.3643
14510	96.4202	162.3533	4.6710	431.9601	298.7986
6838	96.4202	76.7333	6.4788	69.0887	78.9375
3746	96.3615	743.9900	4.7844	784.5842	162.2759
13386	96.0681	29.1367	1.6105	49.5808	18.6079
4153	96.0094	726.6833	5.7805	697.6108	157.9230
10714	95.9507	189.5167	3.0657	213.9803	93.0804
18679	95.8920	462.8333	5.9555	424.6149	115.4540
11404	95.8920	558.8133	14.1202	431.5947	125.6193
21668	95.8333	300.0200	1.9883	311.2505	62.2409
11561	95.7746	377.4300	34.4538	230.5533	65.0937
16451	95.7746	551.9500	13.7123	476.0406	210.3648
2069	95.7746	849.5900	24.7226	1050.6257	182.8484
13977	95.5399	268.8367	13.6411	478.0138	154.6699
2781	95.4812	247.5867	17.4291	139.6392	94.3951
5256	95.4812	68.3500	1.5687	89.8123	61.5472
21469	95.4812	344.1767	7.9813	354.3289	160.5296
14234	95.4225	1027.2067	243.0928	625.7670	131.2207
8577	95.4225	295.9033	2.9504	267.8078	66.1661
22065	95.4225	1309.5033	22.1943	1170.4870	329.7017
11066	95.3052	255.6500	5.8592	342.1098	117.0751
5624	95.3052	553.7733	23.4419	360.7303	160.4921
18742	95.1878	42.6733	3.5372	88.0659	52.0385
8132	95.1878	163.0067	2.4774	185.0842	53.9417
5999	95.1291	212.7767	5.6900	200.7787	113.1627
21279	95.1291	75.4067	2.5307	50.8432	19.1903
22471	95.0704	41.2467	0.8458	53.3912	22.4259
7691	95.0117	33.5700	0.8642	53.1849	56.3899
21505	95.0117	150.3867	3.4840	113.1032	41.6647
6582	95.0117	283.3767	5.5381	223.1994	64.1512
14388	94.8944	78.7500	5.0129	120.7581	48.9875
9977	94.8944	49.8700	2.5275	33.2643	31.5414
6635	94.8357	126.7267	2.6088	98.1642	38.4304
2526	94.7183	316.9300	7.4353	401.9889	87.5810
6176	94.6596	43.2233	1.3288	36.7272	31.0535
23799	94.6009	171.5967	3.0202	181.0648	61.1450
2733	94.6009	327.9033	5.4151	362.5652	101.6928

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TABLE 5BB: HYDRAZINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23097	94.5423	695.9167	54.1146	477.1844	107.2960
3986	94.5423	53.2867	2.8136	87.5412	30.4123
4427	94.5423	100.6567	1.8579	82.0286	31.7293
21744	94.5423	101.0933	9.2880	54.5613	46.2865
3103	94.4249	106.7233	1.9255	113.2733	35.0297
21197	94.4249	31.3133	1.9745	18.0013	15.9929
6608	94.3075	73.2000	19.5353	147.3671	38.9766
19765	94.3075	416.1767	10.3273	407.7220	155.3258
12554	94.3075	41.2700	2.2824	22.5745	16.8033
23656	94.3075	315.7333	3.3950	319.2350	75.4920
13916	94.2488	22.1067	0.8116	25.7640	13.6463
23355	94.2488	446.8800	12.7153	434.6363	170.8930
9596	94.1901	56.8800	11.2409	153.9710	88.3758
4068	94.1901	30.0533	1.0171	42.2742	25.1705
5528	94.1901	92.0433	8.7276	218.9110	107.8415
1263	94.1901	726.2400	46.0840	536.1424	111.3495
16579	94.1901	363.6600	6.2905	334.9118	70.3986
22934	94.0728	50.6667	1.6051	68.9886	28.0706

TABLE 5CC: IMIPRAMINE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1720	99.4125	31.9032	2.2578	-29.7535	32.9198
20746	99.2362	1638.9485	66.2612	560.3927	300.2581
21015	99.2362	3074.4276	21.2156	4926.3466	1487.3141
21013	99.0599	2298.6030	59.4444	4827.2689	1682.2280
20650	98.8837	102.7452	8.4703	607.2097	405.2485
2854	98.7074	1233.9485	31.1854	708.3210	203.1734
20745	98.6486	1195.7975	145.1309	410.1511	216.8996
1575	98.6486	37.0993	1.7586	13.0926	11.3351
18725	98.5899	20.6555	1.1694	93.0900	59.1469
1878	98.5899	39.4790	2.0725	15.1939	13.3405
20801	98.5899	372.2555	12.8974	223.4977	103.9353
25718	98.2374	1438.0315	50.0931	1008.6785	160.7302
17486	98.2374	23.2910	1.7326	5.1067	8.5820
1789	98.1786	51.3125	2.2267	25.3892	13.3963
11755	98.1786	179.6920	25.7524	686.0843	302.2192
426	98.1199	983.9775	55.4611	2597.4705	1304.8870
25200	98.0024	34.8295	3.7577	13.2202	12.6108
25168	97.7673	24.0880	0.1920	23.7542	9.1863
25056	97.7673	-15.5760	9.2022	141.7213	163.6066
3387	97.7086	25.4895	3.5759	6.7353	8.6512
17775	97.7086	97.2798	5.2653	40.3201	41.9903
26043	97.6498	28.6130	2.8807	9.5689	7.8717
24693	97.6498	71.3015	13.1434	773.9918	485.9603
3831	97.5911	301.1957	28.9726	125.1445	62.3240
15800	97.5911	148.6880	23.3699	52.5346	23.2110
18000	97.5911	678.7267	33.2355	1238.9171	348.7831
20088	97.5323	214.9960	11.0121	92.7950	47.9793
5545	97.5323	125.9530	23.2153	544.2325	272.7071
1435	97.5323	1693.7863	141.8816	929.1961	277.1226
6049	97.4736	1998.2413	131.2543	1212.9939	284.3219
670	97.3561	72.7118	9.1183	313.6622	123.1828
13283	97.3561	54.3508	5.5288	145.4198	71.7992
108	97.3561	649.8777	81.9309	1574.0627	613.2621
19967	97.2385	35.0850	2.4348	12.0096	11.4830
13646	97.2385	2487.4215	242.4951	1615.6364	281.8239
25966	97.2385	53.8155	32.1419	-10.5998	19.2468
10429	97.1798	49.0665	12.2701	7.9586	13.0597
8266	97.1798	841.9622	63.4059	2086.9398	954.1779
17292	97.1798	37.9300	4.2373	122.2014	59.8957
25753	97.1798	65.6697	16.2949	-17.8769	32.6182
17173	97.1798	174.6208	16.8220	102.4593	25.4983
18504	97.1210	117.9572	13.7541	58.6650	19.1122
649	97.1210	30.6130	4.8894	7.2398	8.8764
24326	97.1210	1583.9358	173.8404	824.6246	251.5429
10545	97.1210	676.2200	8.3667	527.2831	121.7804
24490	97.0623	125.2865	23.4315	54.8461	25.5435
16042	97.0623	76.0185	5.4796	39.0057	17.5455
3910	97.0623	121.4825	6.0622	67.9678	28.0145
80	97.0035	41.0427	6.4302	12.0243	10.9181
15749	97.0035	27.4755	3.1713	4.0401	33.5984
25546	96.9448	95.7995	10.0550	29.5695	35.9153
3879	96.8860	800.6863	33.5704	1446.7208	432.6999

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TABLE 5CC: IMIPRAMINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20494	96.8860	-159.5240	50.8250	195.4982	181.6616
20410	96.8273	205.2305	44.0058	70.8153	46.0380
18147	96.8273	48.3982	17.9986	-19.2140	21.4748
20902	96.8273	279.5470	30.4802	147.2794	43.8067
25848	96.7685	47.1313	18.7490	12.0558	10.3040
16895	96.7685	25.2713	13.5038	266.3075	167.0301
17088	96.7685	677.4872	69.7123	350.6841	135.5349
4559	96.7685	53.9000	9.4575	12.9112	17.6750
20188	96.7685	405.1217	26.6384	211.0001	101.8184
20236	96.7685	421.7645	33.7972	197.1529	126.0187
20859	96.7685	93.9305	13.5483	43.5931	55.2011
1728	96.7685	322.3097	17.1906	227.6089	90.1142
1920	96.7098	327.5068	5.1861	518.9960	217.0989
25821	96.7098	120.4375	35.3441	45.5962	23.0681
25382	96.7098	50.3423	17.4157	3.6390	13.5023
67	96.7098	158.1370	29.5556	54.6080	34.2261
25942	96.7098	35.0240	4.0015	13.2366	9.2897
20834	96.7098	77.2023	8.9449	30.4114	19.0754
4324	96.7098	38.1283	10.8636	-13.3853	24.1243
405	96.7098	75.5808	7.1246	216.8274	115.4306
4035	96.7098	69.0588	16.0426	15.0741	18.4216
1184	96.7098	21.9150	1.4490	10.0585	6.4782
22783	96.7098	505.8063	28.9973	244.8359	154.2268
1418	96.6510	140.1768	36.8226	63.2517	22.2376
15066	96.6510	249.2687	44.5852	644.7028	204.1419
745	96.6510	47.8130	2.6540	27.4286	12.1833
212	96.6510	36.8225	4.8711	15.6931	12.1807
25799	96.6510	416.8150	26.4510	212.1327	140.9002
4748	96.5922	35.4350	19.6952	451.7404	360.3694
16721	96.5922	48.1607	8.9241	123.8567	48.6051
14486	96.5335	45.6530	12.3812	8.5912	11.5271
730	96.4747	187.7680	34.2000	45.9734	51.8037
3431	96.4747	5427.9056	1003.6967	3104.0541	783.1762
24750	96.4747	25.4115	6.7316	-12.4145	16.5016
4556	96.4747	107.6130	7.0878	71.6394	17.2472
1130	96.4747	266.7875	114.7086	969.3972	386.4870
1138	96.4160	115.9005	8.7627	57.2749	28.6947
23180	96.4160	2187.7585	274.4873	1369.4050	273.4658
25636	96.4160	91.1408	14.6815	22.2760	33.6224
20405	96.4160	60.4735	16.4305	219.2488	96.7823
20509	96.4160	106.6507	3.2586	71.2812	26.6382
11599	96.4160	32.2320	2.6967	15.7003	9.5009
25433	96.3572	132.5613	16.5868	42.7323	39.3132
15738	96.3572	69.2153	7.4256	36.3364	12.6308
16220	96.3572	48.8158	5.5251	20.3506	16.2981
1598	96.3572	528.1760	52.1856	280.7837	272.4267
25244	96.2985	62.9182	11.0923	19.2739	18.1887
19107	96.2985	152.5425	52.9369	46.2327	35.9661
4049	99.1187	2214.3220	74.6095	602.9060	432.2398
4048	98.6486	1472.4213	228.7942	293.3014	273.0935
12769	98.6486	267.1693	82.4175	37.4415	36.9600
3246	98.4724	196.6472	7.7285	103.4193	56.4708

TABLE 5CC: IMIPRAMINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
5624	98.2961	155.0115	5.4827	362.3778	160.3710
5491	98.2374	146.6950	5.2612	74.6135	32.1499
14197	98.1786	296.9390	21.1412	166.7641	42.6758
22519	98.1786	511.7805	13.3682	927.2739	256.7793
20271	98.1199	270.3340	1.4987	353.0691	140.5164
7904	98.0611	-24.8485	10.0853	43.9280	27.4796
3062	98.0611	462.5840	22.1126	1117.3416	442.8188
15218	98.0024	366.5058	49.6671	989.9652	266.1225
8584	98.0024	-8.6980	11.9211	287.0885	213.4408
11052	97.9436	-25.8247	9.2157	46.4014	30.6259
23756	97.8848	262.1920	20.0908	652.3686	363.1937
19206	97.8261	86.1618	13.1107	23.8917	17.6849
16865	97.7673	257.7357	106.1991	42.0832	52.1270
19991	97.7673	-1.0915	5.6320	45.8193	24.2942
4936	97.7673	559.2685	7.9481	699.6318	245.4573
22098	97.7086	44.9002	1.2861	23.5876	15.9654
12354	97.7086	417.4155	85.1057	152.8118	74.9778
6804	97.7086	91.0923	23.2618	19.8872	16.2478
2250	97.7086	846.2498	70.6939	1651.9306	680.9355
14042	97.6498	820.5130	106.3353	3529.0945	1669.3916
19200	97.5911	503.9525	42.9623	227.8102	83.3323
6090	97.5323	221.9317	24.0005	27.0724	61.2912
10246	97.5323	475.7337	34.3866	209.7920	99.4899
8312	97.5323	49.9635	7.1518	3.1397	17.5270
5476	97.4736	36.5477	8.4047	-23.9081	24.4414
10393	97.4736	139.5157	20.3947	39.7465	33.6332
2847	97.4736	4.5670	3.0584	52.0936	38.6388
18874	97.4148	39.4213	1.4350	20.3523	15.7538
633	97.4148	142.0900	14.4773	289.9103	95.3720
3476	97.3561	186.0202	26.0301	67.4625	55.2117
19146	97.3561	107.6828	12.3529	40.6341	28.2997
26359	97.2973	214.3947	26.8314	87.1304	42.2466
19023	97.2973	152.1170	67.0009	-27.4465	64.0066
14192	97.2973	39.8817	2.7133	12.6719	15.4468
12768	97.2973	344.7960	42.6819	153.0503	85.0537
17552	97.2973	205.7418	11.2967	111.5849	47.3979
26115	97.2973	823.2372	38.7069	459.8416	194.3307
7240	97.2973	45.4507	5.0657	1.4012	27.2958
9004	97.2385	62.2205	6.7585	21.6030	17.1300
12335	97.2385	294.4088	14.7742	134.0225	85.7094
3436	97.1798	760.2025	24.4311	454.6793	183.8222
19456	97.1798	616.7365	162.4362	154.6475	141.0503
21237	97.1210	228.0030	21.4545	87.2611	51.5071
5996	97.1210	147.4330	7.7876	84.8020	30.9678
14108	97.1210	34.3457	6.8543	-4.7013	20.5878
19205	97.0623	242.7788	34.6836	87.3128	47.8076
16739	97.0623	198.8505	5.5287	317.1395	103.5826
4670	97.0623	648.2467	22.7990	892.3156	378.7150
2855	97.0623	1293.4650	32.8246	915.3109	214.8895
1690	97.0623	353.6910	18.7103	228.0386	73.6332
22681	97.0623	1551.9040	27.1289	1469.8577	742.6888

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TABLE 5DD: INDOMETHACIN					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10504	99.9412	62.2300	3.5592	330.2917	199.6281
20980	99.8825	257.3800	6.8927	105.5871	25.8754
1159	99.7062	59.5625	12.2939	302.3441	89.2271
21400	99.6475	66.1025	14.2310	348.8392	149.3777
3292	99.5887	510.6300	128.6361	3447.4895	1520.3414
25313	99.5300	429.7700	40.6774	183.6502	63.2161
26032	99.5300	28.9550	12.7369	502.7892	438.3524
20994	99.4712	390.9400	22.5578	158.1114	58.3106
10306	99.4125	2332.4200	321.4667	645.7242	210.6717
1868	99.4125	-18.7075	4.2378	461.1461	323.9081
21657	99.4125	229.5825	47.2791	889.3388	404.3261
20719	99.3537	235.0750	22.1061	99.5416	32.7611
570	99.3537	602.2650	38.6618	257.5117	78.2253
20743	99.2949	42.0950	2.1564	94.1823	32.6478
18725	99.2362	8.1100	0.9713	93.1490	59.0683
20702	99.1774	145.2325	4.1802	50.5415	29.0111
17913	99.1774	484.4975	37.5925	230.3018	60.7197
6477	99.1774	530.9275	112.2568	2195.5485	686.8809
626	99.1187	477.7125	88.2634	87.8368	70.3504
23868	99.1187	45.3650	6.4010	579.7014	534.3961
19335	99.1187	650.7500	57.4103	335.4375	91.1097
17281	99.1187	27.6800	8.2295	156.5676	82.6348
1571	99.0599	1356.6825	93.0060	573.5366	165.6940
797	99.0599	288.5275	61.3999	82.8972	29.7812
18867	99.0599	29.0775	16.0220	310.5560	156.9917
18061	99.0599	379.6025	55.8814	178.0563	42.1544
1468	99.0012	72.8975	27.0035	14.8508	11.5623
798	98.9424	194.4850	38.7411	51.9808	20.3189
11493	98.9424	370.2575	107.5498	32.3674	48.0765
21586	98.9424	376.0450	38.6225	135.3681	56.8817
22576	98.9424	291.2825	55.1263	712.7280	186.2299
14289	98.9424	248.6100	25.5448	110.1495	37.8151
17933	98.8837	852.8025	109.1073	246.1008	128.7651
14881	98.8837	36.1825	7.9075	438.6018	277.1638
15932	98.8837	313.3350	63.6640	135.4865	34.1409
15281	98.8837	1358.3000	384.8702	542.5394	165.9380
18000	98.8837	337.2675	114.8414	1240.5221	345.3338
10503	98.8837	22.6750	10.2151	183.8699	121.4110
3512	98.8249	288.2200	13.3579	145.4154	45.0371
5496	98.8249	45.5050	2.5767	164.8591	97.4298
23872	98.8249	7.9175	4.1278	176.7958	175.4309
1466	98.8249	4549.0700	1537.8844	1246.7102	579.3674
23344	98.8249	877.2525	123.8365	382.3115	107.3639
14213	98.8249	70.7100	15.0978	2.2392	25.8764
4314	98.7662	35.6100	4.0408	163.9508	83.6022
14992	98.7662	205.4200	30.2527	88.5483	26.4634
21090	98.7662	14.1000	6.1319	109.3410	48.9452
16726	98.7662	110.9725	18.4607	324.3886	105.4385
1602	98.7662	3.4100	15.7642	224.4890	174.8619
16180	98.7074	18.2625	5.8828	95.1405	42.9565
22903	98.7074	338.1050	11.7323	206.3488	53.0736
556	98.7074	64.9100	23.4381	265.2199	88.5712



TABLE 5DD: INDOMETHACIN					
Timepoint(s): 24 hrs			Attorney Docket No. 44921-5113WO		
			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1540	98.7074	21.0225	4.8927	97.7588	49.2141
18011	98.7074	441.1475	67.8457	161.7030	65.2610
24196	98.6486	128.6075	57.2429	18.1542	16.1318
19942	98.6486	337.1150	43.3266	145.8070	41.1419
1382	98.6486	193.6200	12.2027	114.6752	27.0709
16133	98.6486	54.2500	7.0315	14.1804	12.1225
9125	98.5899	1290.5900	79.3310	778.0816	158.0294
24645	98.5899	36.2000	3.0405	115.8434	43.6103
1869	98.5899	32.2150	14.8344	704.9147	393.3038
12788	98.5899	111.9350	33.9635	12.1004	21.9528
10108	98.5899	500.5125	78.1530	203.9349	79.5596
2744	98.5899	630.1400	74.3785	313.7995	83.7923
1598	98.5311	1291.8125	169.1408	277.1943	263.7988
11494	98.5311	1200.6075	506.7700	165.6916	123.5680
14583	98.5311	865.4525	73.0594	396.6406	118.1961
19831	98.5311	277.6050	75.5232	106.9405	30.3524
21915	98.5311	1013.0475	20.4381	711.2750	149.8386
17185	98.4724	330.9675	12.2666	229.8158	39.6072
22739	98.4724	298.5725	52.7861	114.6913	31.5662
20509	98.4724	142.0025	6.8330	71.1151	26.3019
20753	98.4724	774.7575	118.4954	361.5211	115.5258
18069	98.4136	173.1450	80.2732	27.3541	22.5176
23248	98.4136	252.2625	112.7353	39.0741	33.5420
17517	98.4136	1073.7525	207.7605	550.5227	175.9005
16416	98.4136	715.1300	131.2254	275.8531	104.0179
25260	98.4136	187.5500	38.6410	63.8350	27.7721
15154	98.4136	1188.5800	230.7209	480.2157	162.3013
24350	98.4136	97.9975	20.5576	29.1151	18.1116
14959	98.3549	2807.4675	183.9564	1626.7477	403.4471
21154	98.3549	97.6700	13.1641	41.5304	16.4321
25257	98.3549	740.2375	143.0950	288.9688	105.5923
1583	98.2961	309.5600	45.1569	121.9829	40.8861
16825	98.2961	152.3525	35.9514	45.4750	23.8228
16256	98.2961	46.6825	25.3516	580.0201	334.3963
18719	98.2374	19.5900	1.2792	129.9511	94.6025
18647	98.2374	1629.3875	458.6422	441.1557	203.6546
15767	98.2374	30.8100	3.1614	83.1373	29.4440
20443	98.2374	326.5100	92.0980	135.5416	35.5447
3513	98.1786	423.3200	45.8831	188.8129	65.0018
25559	98.1786	376.2900	21.4184	165.7325	79.4425
18726	98.1786	57.6575	7.3446	194.8580	85.1690
1004	98.1786	163.6475	35.3333	73.4974	19.2918
19103	98.1786	13.4450	5.5949	111.5269	68.9002
1501	98.1786	955.4300	153.9155	2216.3751	562.4601
4574	98.1199	85.0700	10.6922	327.4832	128.0218
19825	98.1199	4.5125	2.4202	72.9398	55.4831
16255	98.1199	127.1950	43.1738	1113.9598	611.7239
43	98.1199	34.6800	8.8711	168.8600	82.2045
9054	100.0000	351.9900	7.9793	125.6519	41.4967
633	99.8237	47.2075	8.5617	290.3563	94.4549
19082	99.7062	89.2425	3.1454	197.0939	39.7598
23159	99.7062	1280.5475	78.3938	564.2374	275.8493

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TABLE 5DD: INDOMETHACIN					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18846	99.6475	436.2850	11.5557	240.6489	42.5052
16045	99.5887	59.9075	1.9551	142.3596	41.7614
4193	99.5887	102.6725	7.6252	267.3471	72.4567
17340	99.5887	241.1350	56.3941	924.8543	266.7224
10667	99.5300	-104.2100	17.9208	103.3579	97.4672
10396	99.5300	557.0700	36.7065	218.0900	75.8198
17339	99.5300	37.5700	7.8964	269.0511	296.5241
23162	99.4712	23.8625	11.6809	421.2251	301.8778
2702	99.4712	2222.5775	65.7403	814.8188	283.1735
19249	99.4712	2083.5700	257.6838	479.3686	216.9405
4883	99.4712	1102.4000	173.3207	277.4060	113.7145
3191	99.4712	2317.9725	239.4131	1026.1202	297.2656
19189	99.4712	39.2300	13.5171	444.7078	307.0730
15122	99.4125	133.1575	5.2603	266.8445	60.8079
11549	99.4125	539.7725	8.8368	342.8817	77.7989
15404	99.4125	894.1975	114.5920	120.6707	133.1243
22469	99.4125	800.5050	51.2871	291.6135	130.2465
3519	99.4125	4.1875	15.7170	491.0872	266.7510
8347	99.4125	1433.9300	559.4427	255.6099	237.7935
24119	99.3537	596.9750	67.1134	250.3303	81.0242
5686	99.3537	205.4725	45.5102	2159.3932	1292.6711
15588	99.2949	492.4250	64.5372	136.3331	91.7687
23824	99.2949	749.3700	83.8252	282.1444	83.6065
2750	99.2949	4126.0950	795.9146	1315.6750	528.0626
8919	99.2949	1165.8475	76.6829	585.7077	120.1433
24028	99.2949	983.0900	150.7155	399.1276	125.3691
21660	99.2949	325.4075	125.0238	1789.4427	909.2538
16	99.2949	38.9100	22.2407	329.9026	130.0023
23423	99.2949	499.0300	26.3975	234.7998	89.3107
16883	99.2949	138.6150	13.2748	405.6459	142.9161
2141	99.2949	146.0550	26.9273	425.4535	133.4590
23076	99.2362	773.4950	100.7242	303.7639	84.0008
3138	99.2362	524.8675	28.2598	211.4031	77.3706
17768	99.2362	1539.8175	377.1585	597.6006	136.5156
6057	99.2362	312.2575	31.6028	131.3275	46.5272
3023	99.2362	9.7800	1.6818	57.2105	39.4703
2433	99.2362	350.3400	41.4538	149.9695	41.7688
18002	99.2362	306.0125	78.7259	1303.1528	482.7103
18535	99.1774	835.7700	142.0840	232.1802	91.1171
24375	99.1774	1142.8725	104.4671	511.7731	151.0502
17522	99.1774	1436.1525	95.3435	404.2032	226.4876
6682	99.1187	-0.3700	1.0139	51.1645	28.6147
22676	99.1187	320.8525	17.1388	163.3937	48.9459
9407	99.1187	27.6775	12.7545	462.5909	427.4146
19193	99.1187	104.1300	8.1756	228.5600	49.8296
2267	99.1187	524.0450	31.9154	199.3561	63.1539
14697	99.0599	242.1625	36.6703	64.7691	41.2756
5258	99.0599	45.7125	6.0899	191.6872	55.8202
14051	99.0012	880.8400	158.3002	341.3118	105.4003
6632	99.0012	1167.4825	169.0619	496.9089	135.4993
22029	99.0012	575.2275	125.4391	4040.2448	1536.0511
22492	99.0012	259.2750	22.9185	460.8390	81.6687

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TABLE 5DD: INDOMETHACIN				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18868	98.9424	606.8800	85.9892	155.4969	91.4550
15403	98.9424	821.2775	162.3524	278.8046	78.0158
21208	98.9424	69.1400	15.0950	-1.0806	23.3668
3547	98.9424	208.5125	11.4607	116.4047	33.2878
3246	98.9424	357.0775	58.3305	102.6652	53.9879
2978	98.9424	562.8375	79.0739	227.6677	52.8734
18909	98.9424	42.1200	8.0112	366.4631	198.2310
3107	98.9424	898.1750	139.8782	446.4196	82.6735
14975	98.9424	540.9725	137.2379	4073.3305	2424.0041
4952	98.8837	2638.6125	364.2734	930.2780	355.6940
7436	98.8837	791.4100	113.9532	356.6442	105.8016
7379	98.8837	25.2350	6.3830	95.5795	35.3714

TABLE 5EE: INDOMETHACIN					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10543	99.2344	24.3800	14.4212	-6.6322	7.2900
24825	97.7032	2106.3233	263.3400	842.6462	408.3046
16825	96.8198	110.1933	20.6317	45.5211	24.3961
17316	95.6419	94.6467	23.1372	35.0426	27.7532
17728	94.1107	5787.3817	281.5390	3978.6380	1035.1560
353	94.0518	717.8300	82.3841	410.8303	247.6053
19161	93.9340	3129.0483	82.3470	2565.7714	670.6154
16315	93.8163	20.5617	3.2377	6.2142	8.9082
17100	93.5218	2811.1767	124.6943	2109.8541	457.3016
16918	93.4040	4351.1517	305.5557	3013.2120	883.4637
22412	93.4040	943.3383	114.7927	688.7529	452.6229
18107	93.3451	909.7950	20.3440	791.1657	168.4428
19952	93.1684	2.2650	6.1361	29.2135	23.7795
16275	93.0506	5979.9517	297.2096	4308.9991	1442.9995
16381	92.9918	276.0017	18.2616	431.2981	120.4333
21654	92.8740	1304.0683	212.5128	852.7638	221.4411
1813	92.6973	170.0333	39.6697	51.6642	64.2916
11189	92.6973	124.8617	9.4317	88.4635	20.9321
21154	92.6973	65.3700	6.1522	41.6264	16.7892
1540	92.6973	39.3967	6.9177	97.8097	49.3074
4186	92.4617	5529.7167	313.7911	4097.1779	1197.6529
5358	91.8728	41.4850	6.5388	93.7589	51.1839
1610	91.8139	126.8150	31.7320	62.3387	30.8112
2697	91.7550	3600.5100	165.2472	2876.2334	619.7999
18615	91.6372	2384.0483	251.3521	1712.0141	371.8772
11350	91.6372	10.6467	1.4666	24.4535	14.1151
21380	91.5783	323.0200	40.6165	202.5287	68.0559
12639	91.4605	3743.2600	312.3105	2728.7545	612.5186
1694	91.4605	3420.9500	253.5555	2471.3516	617.6841
20928	91.3428	47.1833	6.1546	111.8406	70.3876
1867	91.2839	1616.1500	71.2711	1325.1602	262.0566
4441	91.2839	2647.1583	120.5208	2085.4028	440.4377
17105	91.1661	3379.1617	558.9931	2403.4440	560.9624
3027	91.0483	3109.7033	165.1798	2340.2548	597.1547
16401	90.8716	9731.1033	724.0395	7197.6016	3178.1108
18611	90.7538	4048.7917	522.2197	2799.8785	800.0305
809	90.5183	12.8067	3.6061	93.3238	145.9655
11975	90.4594	20.0633	2.3415	7.6341	19.0391
10305	90.1649	25.7933	2.1682	47.1931	28.2563
25774	90.1649	10.1200	3.5607	28.1311	14.6310
16942	90.0471	1276.7833	30.2769	1195.7805	243.0254
15735	89.9882	58.8833	9.2766	103.9531	35.5529
798	89.9293	77.7367	12.7522	52.4702	22.5619
16929	89.9293	2547.6850	219.4385	1976.1322	398.1845
4213	89.9293	9874.8083	954.5959	6707.2585	2582.9874
16039	89.7527	993.9867	86.4770	712.0597	206.2687
17211	89.6938	3932.4333	445.8944	2681.9398	841.3591
238	89.6938	258.9633	11.3256	327.4939	87.2265
20812	89.3993	4149.5417	495.7116	2964.9498	735.2147
5317	89.3404	583.7200	37.8045	693.5554	480.0953
14981	89.2815	8894.7083	1683.9675	5405.0387	2268.2013
5667	89.2226	2238.0933	135.5298	1847.4786	352.2519

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TABLE 5EE: INDOMETHACIN				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25808	89.2226	96.1400	24.0058	68.3337	80.8573
13973	89.1637	18.4917	6.1961	57.8494	32.4703
1928	89.0459	73.4400	13.1645	125.9314	39.9750
19421	88.9870	6723.2400	1273.4134	4432.4977	1604.2763
22413	88.9282	552.2333	64.9133	465.9755	283.8107
1973	88.8693	182.3300	17.4177	264.4734	76.0289
16132	88.8693	6458.8083	526.2780	5049.2796	1800.8586
19694	88.8104	8.3083	5.0799	23.5972	10.6688
18122	88.8104	65.0233	9.8846	44.0133	35.2179
21917	88.6337	13.6833	2.6667	27.0752	12.1714
16871	88.4570	6.8283	4.7077	23.3336	13.3454
18582	88.4570	119.1233	10.3595	169.6300	58.8148
14959	88.3981	2165.1567	234.8589	1628.5056	409.2306
10109	88.3981	4024.0317	425.9288	3026.1301	695.7214
17549	88.3392	985.3550	31.0833	867.2478	164.0544
17787	88.2803	2084.9650	236.9322	1633.6004	504.0643
21400	88.2803	181.8600	36.1691	348.6872	150.1303
16938	88.2214	3956.6883	383.2469	3012.3976	687.4951
23883	88.1037	52.5933	12.0384	166.6202	118.6147
517	88.1037	140.3967	9.3654	163.5929	84.7540
16956	88.1037	424.6100	16.5362	460.3850	106.7428
4185	88.1037	6669.2983	627.6036	4835.6217	1745.6294
16982	88.0742	4869.1517	1469.6829	1602.9005	938.8693
23274	88.0448	1039.2450	23.0436	948.4271	182.3544
15612	87.9270	101.0483	10.6896	236.3170	195.2092
15137	87.7503	1101.4717	102.8059	1542.3185	343.4252
17112	87.6914	10532.7267	1665.8448	7162.7296	2589.0751
18628	87.6914	3742.0533	396.6643	2823.9894	651.6874
16963	87.6325	9032.4733	1481.4070	6136.6555	2563.1590
18640	87.6325	121.9233	16.2214	171.3842	37.3440
17111	87.5147	10187.2350	1395.9656	6851.1265	2725.9975
2465	87.5147	5.7000	4.0993	21.1085	15.5090
804	87.4853	1886.6583	291.8008	988.6440	371.1965
20467	87.4558	41.5667	12.2795	11.8728	20.6279
25511	87.4558	39.8683	8.3392	22.4326	23.5929
20811	87.3969	5179.4483	900.9748	3692.6774	1147.1936
2696	87.3969	2192.5000	285.7628	1601.2932	460.5565
19109	87.3969	114.6217	10.2731	172.8636	58.6449
16123	87.2203	68.5533	20.0110	254.7184	222.1148
1541	87.2203	19.6200	4.8586	44.5224	23.8212
21843	87.2203	99.1950	6.8644	125.2638	35.3734
15653	86.9847	2983.7583	348.8977	2358.4940	488.9654
1475	86.9258	62.5033	15.9571	290.8709	324.5207
23070	86.9258	316.5383	48.3709	239.3569	58.2875
14751	86.9258	58.5500	9.1784	39.5591	16.7970
15875	86.9258	3454.1017	353.4437	2580.2155	693.0522
21643	86.8080	2997.1200	347.4320	2294.7308	623.4944
17908	86.7197	1064.4783	429.2395	445.8285	265.7494
13634	97.7621	5363.5417	222.6323	2850.8978	1032.6332
14051	97.7621	705.6150	130.7731	341.2791	107.5048
9808	96.2309	163.4100	13.7140	84.5596	37.6219
21510	96.1720	1324.6617	324.5198	627.4807	217.1705

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TABLE 5EE: INDOMETHACIN			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22581	96.1131	127.7567	38.3997	17.7075	49.0309
4190	94.9352	172.6517	14.7281	102.7109	40.2959
8917	94.8763	138.9933	23.3870	53.5015	44.1104
12794	94.8763	834.4917	26.3139	594.2381	163.3441
11411	94.7585	621.2783	84.0663	412.9537	88.6290
16501	94.6408	34.5900	10.3791	100.2185	39.8545
24375	94.5819	819.0883	73.0732	512.5746	155.1996
13507	94.5819	472.1017	69.2651	284.6275	79.0011
2958	94.3463	480.9467	93.9148	234.4485	111.4784
6382	93.9340	598.7967	54.5069	329.5110	169.2354
22876	93.6985	170.7767	18.4599	104.3305	35.5639
4952	93.6985	1675.1333	289.9962	933.0627	369.6254
14352	93.6396	509.9917	23.2710	404.9785	77.4087
2788	93.2862	446.3167	73.8269	254.6656	88.6863
10820	93.2862	5335.5333	327.8053	3806.7636	917.1116
1923	93.0506	649.2650	97.9943	346.2076	157.8775
8164	93.0506	181.7300	42.3964	106.9581	42.5462
21838	92.9329	490.0650	79.2046	298.3442	90.7654
10281	92.7562	0.6867	22.1241	200.0244	167.1235
19344	92.5795	193.4000	8.0742	291.6941	102.5424
18641	92.5206	227.7217	9.2580	327.9687	102.4483
2388	92.4617	4801.2517	418.4236	3121.3732	956.1541
7289	92.4028	-4.4967	5.2330	28.3656	30.6388
6223	92.3439	18.1783	7.0157	41.9214	16.5867
8665	92.2850	167.0983	23.9732	517.1451	411.6194
18838	92.2850	110.2900	3.7228	92.5480	31.0644
7142	92.2261	650.7967	122.9873	364.4096	133.8193
3260	92.1673	73.3133	24.4677	201.1012	97.1035
11507	92.1084	1269.2533	53.5282	1010.3462	180.1297
14879	92.0495	75.7183	9.8547	138.2863	46.6705
24373	91.9906	354.2500	73.5639	206.9843	73.8334
21816	91.9317	1782.1867	89.7420	1352.3481	336.6435
7243	91.8139	199.3700	21.3942	134.6220	40.1926
12766	91.7550	163.6733	57.6963	370.2901	133.2472
3798	91.6372	144.4733	29.9517	311.4275	135.3080
19452	91.6372	253.2433	30.8592	153.3418	115.2311
5937	91.5783	544.6050	70.1994	372.3010	99.3150
17664	91.5783	1023.5433	140.3720	703.1680	175.5302
19927	91.5783	6763.3200	849.1312	3872.5569	2297.7424
17190	91.5194	382.7833	24.5750	517.4024	106.5697
14243	91.5194	43.0550	7.4302	89.3135	35.8939
20635	91.2839	-9.2850	6.4931	21.1134	27.7551
15196	91.2250	138.8350	11.2089	93.2752	31.3411
320	91.1661	2937.2400	130.9974	2367.1015	533.8159
5255	91.1661	411.1600	82.4481	207.3157	102.7573
2108	91.0483	65.5983	26.4561	148.4754	51.0656
10998	90.9894	47.9517	9.5149	85.1140	24.6336
21747	90.9894	452.7800	25.3157	577.6032	118.2991
3720	90.9894	359.6100	31.3469	275.3491	62.7340
13317	90.7538	284.0150	36.1864	186.4690	56.1166
14670	90.7538	5826.5850	531.8751	3851.2828	1153.9273
18900	90.4594	2769.7067	290.8992	1851.2257	522.2700

TABLE 5EE: INDOMETHACIN				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
8025	90.4594	991.1450	57.7803	704.1607	246.8090
350	90.4005	497.5983	42.6445	687.0801	155.2894
14406	90.4005	88.0667	14.6838	50.9663	26.1752
22084	90.3416	76.8350	5.8521	111.5113	34.6042
18115	90.1649	26.7517	8.0676	105.7596	77.0453
12033	90.1649	174.0033	11.9393	246.9847	61.5871

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Table 5FF: Inducer Liver Enlargement				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13348	77.3371	56.1007	19.7632	34.9341	25.5757
15291	75.9161	180.3362	51.4163	130.9505	72.5057
15411	75.9004	67.8815	29.9454	136.8866	84.3633
16249	75.8202	100.6368	54.3983	69.3591	64.8830
18686	75.3895	229.3079	105.1214	577.4128	488.7145
26051	75.0509	22.0742	9.4974	35.8596	17.2631
12348	73.9039	310.2187	60.5749	257.1916	66.5750
18687	73.5339	258.1389	77.1124	536.5579	435.1013
25047	72.6903	39.5720	11.9397	29.5571	13.8761
21238	72.1187	156.5895	53.7086	104.3031	73.4338
4407	72.1148	303.6367	110.8826	170.7567	90.1733
17227	71.7644	1043.0540	155.4137	1284.8668	341.4977
22413	71.6587	594.2750	208.9158	461.7768	284.3352
19712	71.6430	14.7125	9.4243	28.9455	16.9190
11973	71.6391	63.9008	23.4195	40.1428	19.4939
322	71.5882	273.2246	155.6002	164.7277	179.2547
18362	71.4610	44.4851	13.9953	64.5248	23.9039
18468	71.3299	102.8783	34.9663	65.9981	47.7991
22813	71.1889	74.6475	30.7726	48.9929	32.0397
22412	71.1380	883.6835	318.6074	683.2731	454.4025
16982	71.1224	2139.4857	707.7157	1606.4968	984.9039
16085	71.0871	121.4498	36.2186	96.3934	51.4368
25799	70.8092	266.7109	84.8578	211.0730	142.5992
24658	70.6272	39.9037	12.6599	30.1120	15.4474
1453	70.6213	48.6338	13.0742	62.1430	42.8791
1977	70.6115	190.7254	62.9339	291.3452	131.8458
5655	70.5410	37.5187	18.7261	22.4854	21.3157
15995	70.4510	385.8373	190.7988	226.6805	170.3337
5297	70.4001	76.3587	27.9825	46.7762	27.7690
20509	70.3942	78.3129	13.4326	71.1884	27.0286
1063	70.1730	96.5502	44.9813	54.3967	36.4390
4739	70.1163	90.7829	26.2185	113.9265	29.1028
17586	70.0869	199.3536	51.3932	156.7442	43.7736
15579	70.0752	250.8660	243.8336	609.3461	508.0160
20597	70.0301	1180.6380	189.3158	994.3915	296.3209
17226	70.0047	686.3449	127.6701	850.3682	250.0062
23129	70.0008	62.3583	19.9830	41.5425	20.2028
19727	69.8931	2312.6521	331.1082	2651.0391	592.3776
18494	69.8579	145.2624	31.4788	128.2460	49.7060
43	69.8324	120.9760	36.9594	170.0101	83.2442
10248	69.8285	36.9076	19.4179	22.4998	22.5538
25608	69.8285	71.2978	29.1753	49.4122	34.7829
22916	69.8285	479.1869	125.3762	361.2016	127.9370
1764	69.7267	202.8437	42.8990	170.5455	54.1801
20944	69.7267	1373.7014	192.4485	1250.9611	275.9236
21882	69.7267	557.3504	102.7223	688.0792	180.4701
2070	69.7228	143.5868	45.8673	103.7961	43.3644
19103	69.6759	60.7387	27.7676	112.9615	69.4443
1531	69.5897	56.1672	40.6003	147.8179	132.3351
16155	69.4233	112.2564	35.7576	96.2407	55.8818
1255	69.4194	44.3367	31.8818	18.1485	26.8093
14694	69.3372	1834.7539	406.1874	2180.6492	552.2725



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Table 5FF: Inducer Liver Enlargement				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20849	69.2765	582.3709	88.5306	519.0045	142.6416
10305	69.2374	70.3324	32.8308	46.1667	27.6681
4524	69.0240	87.1190	21.7353	70.8006	31.0214
15545	69.0142	21.2825	9.3107	16.0410	11.0901
14332	68.8929	102.1133	44.9267	84.0863	51.4061
6963	68.8420	474.1156	80.1191	402.1738	109.9758
7395	68.8166	642.0439	148.4427	773.8930	199.5821
20493	68.6952	74.8464	23.7539	110.2341	47.0251
25531	68.6600	28.2719	7.6129	21.8505	10.7845
23282	68.6149	491.5175	90.5316	432.1111	93.7205
15265	68.5347	533.8075	161.2220	488.6354	113.8165
15409	68.4975	123.4252	49.4666	204.2404	127.6320
20426	68.4779	149.6585	32.2722	127.6747	40.9276
17958	68.4740	96.5777	53.2780	64.7777	44.7599
23302	68.4740	110.3512	45.2313	80.4504	39.0039
15580	68.3918	483.9744	320.4002	967.8970	603.6172
4234	68.3566	820.1767	117.1995	724.2143	172.8685
21729	68.3409	233.4187	93.2829	461.0103	373.2648
18381	68.3370	50.9194	16.0820	37.6543	16.0971
1466	68.3213	1569.9011	414.9407	1250.5822	630.9345
672	68.3174	31.3718	28.7630	20.6111	24.3721
17421	68.2606	157.4791	41.4077	210.2173	59.7426
14997	68.2567	514.7473	299.0396	465.4704	212.6295
20957	68.2254	118.3284	48.5463	145.8628	45.9630
21063	68.2098	33.5693	6.6437	28.1946	11.4075
17541	68.1491	2145.3666	526.6878	2973.7481	1080.1001
21849	68.1236	72.0586	32.8786	109.3342	60.9450
23249	68.1099	94.1877	48.8957	67.9199	43.7112
818	67.9768	1731.0612	789.7770	2917.9189	1780.1634
21941	67.9768	227.8179	40.5259	276.4243	77.4909
15292	67.9573	270.1595	45.0795	234.0548	74.6038
14928	67.9416	1132.3629	175.8735	1315.5746	258.7202
14353	67.8966	112.5906	22.4866	95.0016	35.1337
20915	67.8300	205.7333	97.6321	422.4928	342.6298
15182	67.8202	219.2893	45.9693	261.7592	75.6182
15927	67.7850	43.4862	12.6658	61.1917	23.1835
15996	67.7811	362.1020	163.2909	243.1424	153.0433
17564	67.7596	326.2950	70.9832	398.4094	101.8717
20243	67.7498	135.7471	28.0424	116.3105	36.7717
25483	67.7498	36.0595	7.4022	29.4978	9.7365
18770	67.7341	787.1463	98.9568	817.6303	201.2717
21090	67.6989	78.5215	25.5253	110.0381	49.5826
338	67.6754	32.0057	42.7460	-0.5299	35.9089
4541	67.6636	218.2407	68.6198	276.3739	89.0275
25605	67.6441	45.8828	16.3492	34.8375	17.2896
11956	67.6030	1295.3297	274.5209	1591.4034	406.7798
25719	67.6030	2386.1639	319.7131	2778.1065	614.5672
4224	67.5932	365.8112	65.6803	318.4252	103.1652
6252	76.1236	567.1340	120.1918	421.7183	149.5285
14763	75.9611	143.9174	127.4739	569.2141	566.6156
6165	75.5422	423.6922	134.4659	317.1905	131.4511
18522	75.4404	162.6187	34.8217	223.9357	62.7990

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Table 5FF: Inducer Liver Enlargement				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23584	75.3191	10.4295	25.3364	63.3896	56.7429
18096	75.0313	55.2966	21.3404	36.9849	24.1760
13563	74.3736	324.0982	97.1325	469.8289	149.9044
23499	74.3482	85.0474	26.8445	128.8031	50.9022
23184	74.1818	174.1454	40.7951	132.1746	49.4218
2911	74.0448	150.5585	60.8574	289.7925	180.2599
3365	73.6455	65.9130	45.3407	136.5436	73.7037
7199	73.2560	270.8130	79.0348	407.0139	165.9699
12096	73.1855	159.0664	40.5937	121.5344	58.3004
16989	73.1855	390.7460	93.0590	484.7738	110.7234
2768	73.1248	556.8278	243.0606	956.7324	413.0317
5494	73.0896	185.7107	49.2461	141.2537	68.8392
22416	73.0132	37.5362	20.3151	101.1657	97.5376
7913	72.9682	278.3544	77.2099	205.6779	97.9994
22558	72.9526	277.2611	135.3227	556.9096	313.3986
22415	72.8116	2804.8320	916.3613	2106.9886	1263.2985
15085	72.7705	755.9309	136.9326	1026.3972	339.8806
3963	72.4632	322.0818	100.7646	239.8735	97.7946
7310	72.3360	552.8986	165.2240	768.0045	240.7791
24386	72.3203	165.2544	21.1365	153.0984	40.8497
2691	72.1285	386.3193	67.1723	330.2897	99.4576
21993	72.1089	386.8642	98.2619	288.2825	125.4992
16703	72.0776	275.7302	49.9746	411.5062	217.1560
3924	72.0776	161.7287	49.4438	217.7177	91.7048
22542	71.8956	1479.1973	181.1793	1770.8507	414.6681
5602	71.8349	33.2478	28.4030	122.4479	156.2744
14501	71.7546	57.7538	16.7238	39.7193	21.2871
18659	71.5178	215.7451	75.4203	136.9710	66.5420
3487	71.3201	39.4568	34.2752	6.8063	35.1896
7745	71.3201	354.8808	104.1573	276.9847	136.5046
16701	71.2888	522.8651	109.0657	791.0215	386.5636
14393	71.2888	168.0008	18.9072	160.7665	43.2984
7147	71.2692	840.0680	213.7877	1062.1016	253.5514
11416	71.2437	144.5078	37.3508	181.9726	47.6173
4587	71.1987	1241.7289	299.8607	996.9830	306.5197
18413	71.1420	171.9747	29.5225	161.5461	59.4391
21581	71.0969	2285.4891	346.9150	2810.3135	632.2322
3917	71.0363	478.1307	233.6233	883.9168	520.7576
22414	70.8797	401.8120	80.2689	384.7359	206.1217
23700	70.8640	561.4910	177.5897	944.9332	530.0280
8815	70.8190	743.7311	133.2296	890.5131	195.0983
18800	70.8092	321.7784	111.8215	258.2904	189.6780
26114	70.7485	114.9126	62.6190	62.1365	79.0575
18826	70.6115	2216.6520	606.8805	1815.2425	933.4582
2431	70.5763	1343.1627	244.9309	1577.5029	304.8693
6188	70.5508	126.5444	43.8432	185.8759	74.7834
22768	70.4764	199.9241	81.8792	143.8164	55.7454
11819	70.4647	67.2348	22.5598	52.6513	33.4273
11719	70.4001	47.6029	21.8458	31.0154	21.9630
9712	70.3903	74.0876	57.6905	85.5450	42.3819
3860	70.3688	207.0138	74.1902	315.0073	134.5876
22677	70.3238	617.1937	153.9140	443.4916	188.5757

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Table 5FF: Inducer Liver Enlargement				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2374	70.3081	40.2034	20.6523	66.0946	31.4207
4291	70.2826	17.2137	8.4108	26.5355	14.0498
22540	70.2220	656.7586	150.7826	832.1162	266.6403
16389	70.1769	93.8938	38.4044	66.1444	39.2163
11489	70.0712	54.0887	30.6415	63.3681	24.9236
22332	70.0556	34.5858	16.4050	50.6956	21.8495
11233	70.0262	372.6505	170.1312	271.6053	129.6800

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TABLE 5GG: INFLAMMATION				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22890	99.0610	62.9833	0.1893	59.3822	33.2336
15468	98.5329	2534.1833	26.2300	1919.2331	434.8911
19319	98.0047	257.3100	5.7855	153.4800	52.7564
6595	97.7700	119.9367	1.3282	153.7211	51.7649
20487	97.7113	36.4367	1.6684	4.9140	19.2783
15401	97.7113	109.4467	1.1547	83.0246	34.7256
21538	97.5352	74.2767	1.2136	101.5142	30.1713
18208	97.3592	17.4800	0.5308	28.8671	41.5460
16895	97.2418	141.2167	5.2040	265.6163	167.5836
19392	97.0657	2971.1300	335.2112	1962.0771	332.6310
17508	96.7136	50.4667	0.5052	55.9608	19.7124
13856	96.6549	83.1100	1.1911	68.8688	20.2977
1454	96.5962	106.6833	1.8105	111.1379	69.9320
18716	96.4202	51.5900	0.7758	64.6004	24.2558
17886	96.4202	458.5833	12.5669	652.2928	140.0482
15387	96.3615	1392.2433	28.8522	1087.7323	285.5557
23987	96.1854	60.9033	1.2486	85.4225	31.2602
15703	96.1854	0.5100	3.5404	27.6249	16.6232
11865	96.1268	19.2700	1.2650	50.3155	29.0210
407	96.1268	19.3400	0.2364	25.6925	8.0069
21012	96.1268	672.7700	21.9655	1219.9637	631.0007
6107	96.0681	689.3533	13.8908	545.4477	217.3588
17563	95.9507	4044.6000	170.1909	2820.1337	637.2251
1680	95.9507	3.1400	1.8357	23.1431	15.4067
19393	95.8920	1483.2233	242.7832	890.3457	189.1350
18389	95.8920	-31.6467	13.7413	34.4476	32.8588
12118	95.8333	69.5833	1.8196	121.4279	71.6547
20984	95.7160	71.6300	2.4134	149.7884	147.8554
265	95.7160	16.1400	0.3659	20.9205	12.6513
15372	95.5986	513.0200	5.4015	428.5034	96.7768
1610	95.5399	81.3200	1.5223	62.7260	31.3015
11892	95.4812	30.1700	0.8762	53.7860	26.2760
248	95.4812	40.2700	4.7706	20.2522	12.7292
17174	95.4225	124.7833	6.8264	85.9962	45.7678
21846	95.3638	18.9400	1.5980	40.8608	32.1534
25030	95.3638	62.2700	13.8459	33.4323	142.6617
4507	95.3052	46.1467	2.2073	30.6886	21.4853
904	95.2465	83.1733	18.6301	49.0633	12.9564
20627	95.1878	52.8633	1.9771	310.3007	451.2757
16108	95.1878	136.7667	1.0987	131.0689	27.2183
17060	95.1878	49.6067	1.9740	55.4973	43.5530
18746	95.1291	29.5167	1.3858	61.2115	33.9797
11907	95.0704	23.2367	0.5108	22.5137	47.4247
23226	95.0704	18.4667	5.3541	57.3559	24.4433
7148	95.0117	122.0133	1.4230	124.8553	35.4678
25642	95.0117	24.7833	2.9848	11.2757	6.9901
22424	95.0117	19.9533	1.1423	32.9115	17.0120
18001	94.9531	192.2033	15.2611	357.8858	125.0898
14928	94.9531	1603.0667	40.9748	1307.8961	258.2491
20826	94.8944	178.8333	4.4011	177.4929	65.7819
18541	94.8944	3018.3433	76.0800	2500.6136	558.6709
17805	94.8357	260.8433	51.1361	657.8627	270.9862

TABLE 5GG: INFLAMMATION				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24423	94.7770	14.0700	5.2388	59.9118	32.4484
20075	94.6596	25.4833	5.8606	8.5284	7.9867
7864	94.6009	1260.3767	13.2421	1389.3680	213.5595
16853	94.5423	126.6767	34.0770	72.8511	21.0492
19268	94.5423	2618.1133	69.0329	2094.2899	572.2317
20716	94.4836	347.4133	20.0898	523.0024	182.1989
21146	94.3662	20.3467	2.5129	9.6721	6.6313
4185	94.3662	5567.8867	217.9663	4845.9565	1749.3975
25149	94.3075	26.6867	0.7508	29.2073	14.0724
20129	94.3075	53.5467	2.6045	36.0082	13.8776
13715	94.2488	21.4867	1.4236	4.1912	14.5136
6891	94.2488	581.0000	10.8778	619.6318	168.3834
17649	94.1901	16.2467	0.8552	29.6281	17.7553
17900	94.1901	412.0667	4.8942	379.5418	74.9409
15141	94.1901	166.6767	8.8226	245.7835	56.8273
11350	94.1315	3.6367	2.7415	24.4296	14.0835
382	94.0141	2.2467	4.4453	43.9506	43.4341
2143	93.9554	544.6500	35.4330	400.7126	83.0949
20426	93.9554	116.0000	2.5139	128.5157	40.9032
866	93.9554	134.9967	3.4537	153.3918	51.8187
21801	93.8380	191.6767	15.4484	123.6261	34.0362
17567	93.8380	3525.4800	123.2339	2651.1500	680.0792
16854	93.7793	319.1133	57.9018	219.6170	48.0453
16954	93.7793	370.9233	83.2084	146.8564	103.1233
15201	93.7793	5815.3133	477.6845	3894.4377	1046.7459
4367	93.7793	204.9267	8.9437	141.6465	40.6253
12028	93.7793	49.4700	1.1755	46.6192	16.3143
16227	93.7207	70.0967	2.3502	101.8044	39.4352
20695	93.7207	-6.0133	3.7412	20.6149	20.3327
18620	93.7207	2404.8433	90.1524	1932.3292	397.3328
18819	93.7207	-2.8767	5.7836	32.8421	25.3108
17304	93.6620	31.8733	2.1652	63.3074	37.3465
15852	93.6033	29.7967	54.8746	43.3783	24.3296
18606	93.6033	3219.5033	260.8873	2178.2932	573.9259
20945	93.6033	2433.2167	79.4629	1945.7740	458.7310
11745	93.6033	141.8400	7.0045	158.1448	54.9707
3562	93.6033	27.9300	3.0350	15.2644	11.6695
18859	93.5446	10.2900	2.8451	31.1420	17.1224
2576	93.4859	74.1533	10.3196	31.9732	29.2644
19073	93.4859	549.4733	13.3865	461.9069	101.6744
19244	93.4272	4182.0933	229.5170	3021.4368	759.7564
16918	93.3685	4869.0933	777.2367	3016.0994	881.6780
15875	93.3099	3896.4733	394.7816	2581.7349	691.5708
15652	93.3099	3989.0633	185.0531	3098.3777	572.9614
18628	93.3099	3756.7067	159.9940	2827.1704	653.3981
17533	93.2512	33.0200	5.0851	99.5282	70.9172
20309	93.2512	34.9267	0.9880	42.2956	19.0703
17142	93.2512	842.4767	26.1264	759.9782	310.9947
7211	99.7066	24.3233	0.4735	-5.5183	13.2906
14518	99.7066	538.5400	2.0528	268.7477	151.2513
23747	99.5305	85.3833	0.5742	18.8980	55.7292
16484	99.3545	58.8100	2.4800	142.7366	42.6873

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TABLE 5GG: INFLAMMATION			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23504	99.3545	829.5800	10.2110	541.9403	142.7596
21563	99.2371	161.0300	0.6991	232.8309	49.4632
4896	99.0023	933.4233	4.2383	1234.8624	238.3889
8616	98.8850	3.3533	0.4907	24.1509	14.6335
26058	98.7676	140.7667	2.3691	70.1809	71.2447
4077	98.5915	1.6400	1.7722	41.7971	26.4811
11928	98.5915	33.2433	0.8376	1.4806	37.2959
6207	98.4742	360.6367	1.8054	319.9769	84.1822
3613	98.4155	25.1500	0.7662	-16.5326	34.3566
10173	98.2981	106.3033	3.5247	63.8721	20.1758
22368	98.2981	459.7200	18.2593	881.4000	299.1864
8219	98.2394	-9.5133	0.9949	29.4157	32.4008
14313	98.1808	25.4500	0.9052	29.8080	44.1420
6446	98.0634	162.8033	1.5253	150.3929	67.1448
5346	98.0634	162.5967	0.9652	131.8170	40.9038
22254	98.0634	31.2167	1.1402	65.9781	33.3147
8720	98.0047	47.5833	1.1232	88.6013	38.8806
6526	97.9460	656.7200	5.7857	510.1745	100.3921
10842	97.9460	31.9600	6.3793	4.6294	10.9717
5433	97.9460	36.7000	2.3091	87.8460	50.8050
16187	97.8873	230.5233	2.9827	251.3711	102.9532
18659	97.8873	82.1200	1.2619	140.0303	68.4744
24174	97.7700	10.8100	0.9457	36.3313	21.3655
2140	97.7113	6.7500	1.1101	51.6127	64.3148
22656	97.7113	161.5300	3.0362	94.2208	56.2978
3054	97.7113	97.7700	3.0694	53.8884	30.0460
2044	97.6526	220.7733	2.2076	272.8567	54.4099
4747	97.6526	47.0100	2.3012	99.1815	41.0463
22748	97.6526	84.0000	1.1107	106.0991	22.9850
19127	97.4765	247.7700	1.7206	306.2968	90.3996
22130	97.3592	14.3800	1.0411	42.2758	26.3817
21260	97.3005	191.8767	7.1515	309.0015	124.2285
6946	97.3005	138.4533	4.7174	247.5709	72.7852
23750	97.3005	15.2533	2.8572	65.0670	39.7598
8717	97.2418	1016.1067	7.6671	982.1344	301.8535
17955	97.2418	237.7867	2.5193	251.2719	95.7317
6972	97.2418	12.6600	0.5429	25.8890	13.7536
13674	97.2418	42.6800	0.3816	52.6485	23.4672
11031	97.1244	37.1267	1.2689	13.8928	19.3790
23104	97.1244	-10.3967	3.4685	38.0930	41.3523
11659	97.1244	60.5633	2.9037	22.1559	36.6782
18574	97.1244	295.9533	1.3518	278.7570	52.1432
23386	97.1244	414.8733	5.9494	594.2249	187.9959
13892	97.0657	348.1233	6.8555	473.0480	128.8040
18805	97.0657	897.6767	197.0461	455.5105	118.6916
21528	97.0657	246.1800	5.4895	187.2260	48.2494
10318	97.0657	25.4367	1.6437	-1.5739	27.6959
12310	97.0070	538.6900	5.0474	446.0799	130.7488
22337	97.0070	49.2600	9.4517	-30.8655	43.7218
9384	96.9484	0.3300	1.9751	32.0059	24.7386
24167	96.9484	18.4367	1.0957	33.8878	18.6135
5810	96.9484	26.5967	2.9017	5.0324	17.4799

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TABLE 5GG: INFLAMMATION					
Timepoint(s): Various			Attorney Docket No. 44921-5113WO		
			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11088	96.8897	92.7500	7.5068	43.8994	22.4434
13426	96.8310	775.3400	9.5616	617.5610	154.1059
2355	96.8310	386.0800	2.4916	388.4531	91.5583
6791	96.7723	366.3067	12.9650	669.6902	345.2565
22148	96.7136	29.2433	4.3221	4.0651	15.6231
6873	96.7136	57.1067	1.2758	44.2189	42.1939
11834	96.6549	28.9900	5.9899	-0.6306	11.8896
17451	96.6549	160.0167	1.9342	133.3811	33.0696
7664	96.6549	22.5567	0.6714	15.4585	14.7729
17568	96.6549	128.3100	3.3226	88.0107	60.4400
14960	96.5962	4278.3667	47.3248	3794.6913	1055.1968
5527	96.5962	105.6400	1.5125	96.8612	42.9351
26187	96.5962	522.6733	39.6652	256.4143	135.8406
18465	96.5376	199.7400	5.6448	237.9064	119.8761
15377	96.4789	21.5800	2.3377	52.1270	23.1634
7748	96.4789	-3.4333	6.7099	41.3526	21.7749
4442	96.4202	8597.5767	228.9571	5902.2308	1976.9768
6496	96.4202	66.1733	2.8540	123.0224	45.1062
17248	96.3615	1855.8367	16.6825	2129.0783	445.4304
17699	96.3028	84.1967	1.0374	77.1096	35.7062
16921	96.2441	0.5833	2.8140	52.6056	59.6934
23953	96.2441	38.4333	19.7319	8.7860	10.1310
7917	96.2441	22.7067	1.4969	41.6220	18.0414
23990	96.1854	168.7600	17.7739	65.2763	53.5149
6857	96.1268	26.8233	0.6413	12.8269	85.4249
12798	96.1268	20.1333	2.2181	1.4870	15.3054

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TABLE 5HH: IPS					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22890	99.0610	62.9833	0.1893	59.3822	33.2336
15468	98.5329	2534.1833	26.2300	1919.2331	434.8911
19319	98.0047	257.3100	5.7855	153.4800	52.7564
6595	97.7700	119.9367	1.3282	153.7211	51.7649
20487	97.7113	36.4367	1.6684	4.9140	19.2783
15401	97.7113	109.4467	1.1547	83.0246	34.7256
21538	97.5352	74.2767	1.2136	101.5142	30.1713
18208	97.3592	17.4800	0.5308	28.8671	41.5460
16895	97.2418	141.2167	5.2040	265.6163	167.5836
19392	97.0657	2971.1300	335.2112	1962.0771	332.6310
17508	96.7136	50.4667	0.5052	55.9608	19.7124
13856	96.6549	83.1100	1.1911	68.8688	20.2977
1454	96.5962	106.6833	1.8105	111.1379	69.9320
18716	96.4202	51.5900	0.7758	64.6004	24.2558
17886	96.4202	458.5833	12.5669	652.2928	140.0482
15387	96.3615	1392.2433	28.8522	1087.7323	285.5557
23987	96.1854	60.9033	1.2486	85.4225	31.2602
15703	96.1854	0.5100	3.5404	27.6249	16.6232
11865	96.1268	19.2700	1.2650	50.3155	29.0210
407	96.1268	19.3400	0.2364	25.6925	8.0069
21012	96.1268	672.7700	21.9655	1219.9637	631.0007
6107	96.0681	689.3533	13.8908	545.4477	217.3588
17563	95.9507	4044.6000	170.1909	2820.1337	637.2251
1680	95.9507	3.1400	1.8357	23.1431	15.4067
19393	95.8920	1483.2233	242.7832	890.3457	189.1350
18389	95.8920	-31.6467	13.7413	34.4476	32.8588
12118	95.8333	69.5833	1.8196	121.4279	71.6547
20984	95.7160	71.6300	2.4134	149.7884	147.8554
265	95.7160	16.1400	0.3659	20.9205	12.6513
15372	95.5986	513.0200	5.4015	428.5034	96.7768
1610	95.5399	81.3200	1.5223	62.7260	31.3015
11892	95.4812	30.1700	0.8762	53.7860	26.2760
248	95.4812	40.2700	4.7706	20.2522	12.7292
17174	95.4225	124.7833	6.8264	85.9962	45.7678
21846	95.3638	18.9400	1.5980	40.8608	32.1534
25030	95.3638	62.2700	13.8459	33.4323	142.6617
4507	95.3052	46.1467	2.2073	30.6886	21.4853
904	95.2465	83.1733	18.6301	49.0633	12.9564
20627	95.1878	52.8633	1.9771	310.3007	451.2757
16108	95.1878	136.7667	1.0987	131.0689	27.2183
17060	95.1878	49.6067	1.9740	55.4973	43.5530
18746	95.1291	29.5167	1.3858	61.2115	33.9797
11907	95.0704	23.2367	0.5108	22.5137	47.4247
23226	95.0704	18.4667	5.3541	57.3559	24.4433
7148	95.0117	122.0133	1.4230	124.8553	35.4678
25642	95.0117	24.7833	2.9848	11.2757	6.9901
22424	95.0117	19.9533	1.1423	32.9115	17.0120
18001	94.9531	192.2033	15.2611	357.8858	125.0898
14928	94.9531	1603.0667	40.9748	1307.8961	258.2491
20826	94.8944	178.8333	4.4011	177.4929	65.7819
18541	94.8944	3018.3433	76.0800	2500.6136	558.6709
17805	94.8357	260.8433	51.1361	657.8627	270.9862



TABLE 5HH: IPS			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24423	94.7770	14.0700	5.2388	59.9118	32.4484
20075	94.6596	25.4833	5.8606	8.5284	7.9867
7864	94.6009	1260.3767	13.2421	1389.3680	213.5595
16853	94.5423	126.6767	34.0770	72.8511	21.0492
19268	94.5423	2618.1133	69.0329	2094.2899	572.2317
20716	94.4836	347.4133	20.0898	523.0024	182.1989
21146	94.3662	20.3467	2.5129	9.6721	6.6313
4185	94.3662	5567.8867	217.9663	4845.9565	1749.3975
25149	94.3075	26.6867	0.7508	29.2073	14.0724
20129	94.3075	53.5467	2.6045	36.0082	13.8776
13715	94.2488	21.4867	1.4236	4.1912	14.5136
6891	94.2488	581.0000	10.8778	619.6318	168.3834
17649	94.1901	16.2467	0.8552	29.6281	17.7553
17900	94.1901	412.0667	4.8942	379.5418	74.9409
15141	94.1901	166.6767	8.8226	245.7835	56.8273
11350	94.1315	3.6367	2.7415	24.4296	14.0835
382	94.0141	2.2467	4.4453	43.9506	43.4341
2143	93.9554	544.6500	35.4330	400.7126	83.0949
20426	93.9554	116.0000	2.5139	128.5157	40.9032
866	93.9554	134.9967	3.4537	153.3918	51.8187
21801	93.8380	191.6767	15.4484	123.6261	34.0362
17567	93.8380	3525.4800	123.2339	2651.1500	680.0792
16854	93.7793	319.1133	57.9018	219.6170	48.0453
16954	93.7793	370.9233	83.2084	146.8564	103.1233
15201	93.7793	5815.3133	477.6845	3894.4377	1046.7459
4367	93.7793	204.9267	8.9437	141.6465	40.6253
12028	93.7793	49.4700	1.1755	46.6192	16.3143
16227	93.7207	70.0967	2.3502	101.8044	39.4352
20695	93.7207	-6.0133	3.7412	20.6149	20.3327
18620	93.7207	2404.8433	90.1524	1932.3292	397.3328
18819	93.7207	-2.8767	5.7836	32.8421	25.3108
17304	93.6620	31.8733	2.1652	63.3074	37.3465
15852	93.6033	29.7967	54.8746	43.3783	24.3296
18606	93.6033	3219.5033	260.8873	2178.2932	573.9259
20945	93.6033	2433.2167	79.4629	1945.7740	458.7310
11745	93.6033	141.8400	7.0045	158.1448	54.9707
3562	93.6033	27.9300	3.0350	15.2644	11.6695
18859	93.5446	10.2900	2.8451	31.1420	17.1224
2576	93.4859	74.1533	10.3196	31.9732	29.2644
19073	93.4859	549.4733	13.3865	461.9069	101.6744
19244	93.4272	4182.0933	229.5170	3021.4368	759.7564
16918	93.3685	4869.0933	777.2367	3016.0994	881.6780
15875	93.3099	3896.4733	394.7816	2581.7349	691.5708
15652	93.3099	3989.0633	185.0531	3098.3777	572.9614
18628	93.3099	3756.7067	159.9940	2827.1704	653.3981
17533	93.2512	33.0200	5.0851	99.5282	70.9172
20309	93.2512	34.9267	0.9880	42.2956	19.0703
17142	93.2512	842.4767	26.1264	759.9782	310.9947
7211	99.7066	24.3233	0.4735	-5.5183	13.2906
14518	99.7066	538.5400	2.0528	268.7477	151.2513
23747	99.5305	85.3833	0.5742	18.8980	55.7292
16484	99.3545	58.8100	2.4800	142.7366	42.6873

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TABLE 5HH: IPS			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No: 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23504	99.3545	829.5800	10.2110	541.9403	142.7596
21563	99.2371	161.0300	0.6991	232.8309	49.4632
4896	99.0023	933.4233	4.2383	1234.8624	238.3889
8616	98.8850	3.3533	0.4907	24.1509	14.6335
26058	98.7676	140.7667	2.3691	70.1809	71.2447
4077	98.5915	1.6400	1.7722	41.7971	26.4811
11928	98.5915	33.2433	0.8376	1.4806	37.2959
6207	98.4742	360.6367	1.8054	319.9769	84.1822
3613	98.4155	25.1500	0.7662	-16.5326	34.3566
10173	98.2981	106.3033	3.5247	63.8721	20.1758
22368	98.2981	459.7200	18.2593	881.4000	299.1864
8219	98.2394	-9.5133	0.9949	29.4157	32.4008
14313	98.1808	25.4500	0.9052	29.8080	44.1420
6446	98.0634	162.8033	1.5253	150.3929	67.1448
5346	98.0634	162.5967	0.9652	131.8170	40.9038
22254	98.0634	31.2167	1.1402	65.9781	33.3147
8720	98.0047	47.5833	1.1232	88.6013	38.8806
6526	97.9460	656.7200	5.7857	510.1745	100.3921
10842	97.9460	31.9600	6.3793	4.6294	10.9717
5433	97.9460	36.7000	2.3091	87.8460	50.8050
16187	97.8873	230.5233	2.9827	251.3711	102.9532
18659	97.8873	82.1200	1.2619	140.0303	68.4744
24174	97.7700	10.8100	0.9457	36.3313	21.3655
2140	97.7113	6.7500	1.1101	51.6127	64.3148
22656	97.7113	161.5300	3.0362	94.2208	56.2978
3054	97.7113	97.7700	3.0694	53.8884	30.0460
2044	97.6526	220.7733	2.2076	272.8567	54.4099
4747	97.6526	47.0100	2.3012	99.1815	41.0463
22748	97.6526	84.0000	1.1107	106.0991	22.9850
19127	97.4765	247.7700	1.7206	306.2968	90.3996
22130	97.3592	14.3800	1.0411	42.2758	26.3817
21260	97.3005	191.8767	7.1515	309.0015	124.2285
6946	97.3005	138.4533	4.7174	247.5709	72.7852
23750	97.3005	15.2533	2.8572	65.0670	39.7598
8717	97.2418	1016.1067	7.6671	982.1344	301.8535
17955	97.2418	237.7867	2.5193	251.2719	95.7317
6972	97.2418	12.6600	0.5429	25.8890	13.7536
13674	97.2418	42.6800	0.3816	52.6485	23.4672
11031	97.1244	37.1267	1.2689	13.8928	19.3790
23104	97.1244	-10.3967	3.4685	38.0930	41.3523
11659	97.1244	60.5633	2.9037	22.1559	36.6782
18574	97.1244	295.9533	1.3518	278.7570	52.1432
23386	97.1244	414.8700	1.494	594.2249	187.9959
13892	97.0657	348.7700	1.555	473.0480	128.8040
18805	97.0657	897.6700	197.0461	455.5105	118.6916
21528	97.0657	246.1800	5.4895	187.2260	48.2494
10318	97.0657	25.4367	1.6437	-1.5739	27.6959
12310	97.0070	538.6900	5.0474	446.0799	130.7488
22337	97.0070	49.2600	9.4517	-30.8655	43.7218
9384	96.9484	0.3300	1.9751	32.0059	24.7386
24167	96.9484	18.4367	1.0957	33.8878	18.6135
5810	96.9484	26.5967	2.9017	5.0324	17.4799

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TABLE 5HH: IPS Attorney Docket No. 44921-5113WO					
Timepoint(s): 24 hrs Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11088	96.8897	92.7500	7.5068	43.8994	22.4434
13426	96.8310	775.3400	9.5616	617.5610	154.1059
2355	96.8310	386.0800	2.4916	388.4531	91.5583
6791	96.7723	366.3067	12.9650	669.6902	345.2565
22148	96.7136	29.2433	4.3221	4.0651	15.6231
6873	96.7136	57.1067	1.2758	44.2189	42.1939
11834	96.6549	28.9900	5.9899	-0.6306	11.8896
17451	96.6549	160.0167	1.9342	133.3811	33.0696
7664	96.6549	22.5567	0.6714	15.4585	14.7729
17568	96.6549	128.3100	3.3226	88.0107	60.4400
14960	96.5962	4278.3667	47.3248	3794.6913	1055.1968
5527	96.5962	105.6400	1.5125	96.8612	42.9351
26187	96.5962	522.6733	39.6652	256.4143	135.8406
18465	96.5376	199.7400	5.6448	237.9064	119.8761
15377	96.4789	21.5800	2.3377	52.1270	23.1634
7748	96.4789	-3.4333	6.7099	41.3526	21.7749
4442	96.4202	8597.5767	228.9571	5902.2308	1976.9768
6496	96.4202	66.1733	2.8540	123.0224	45.1062
17248	96.3615	1855.8367	16.6825	2129.0783	445.4304
17699	96.3028	84.1967	1.0374	77.1096	35.7062
16921	96.2441	0.5833	2.8140	52.6056	59.6934
23953	96.2441	38.4333	19.7319	8.7860	10.1310
7917	96.2441	22.7067	1.4969	41.6220	18.0414
23990	96.1854	168.7600	17.7739	65.2763	53.5149
6857	96.1268	26.8233	0.6413	12.8269	85.4249
12798	96.1268	20.1333	2.2181	1.4870	15.3054

TABLE 5II: METHOTREXATE					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
643	98.7074	43.9825	7.0395	13.9907	24.5127
20944	98.1199	1452.3175	7.9371	1254.4859	274.5334
24351	98.1199	99.2900	27.9576	15.8629	16.7960
4477	97.7086	283.5075	56.9869	100.0627	43.4432
25643	97.4148	1320.2575	282.2911	543.0042	202.3403
16546	97.2973	209.0600	25.8406	97.6569	62.9828
13646	97.1210	2414.6175	188.9322	1615.9787	282.9816
23	97.0035	25.5750	2.8505	2.6229	10.9261
19825	96.8860	259.0375	57.8625	71.7435	54.0759
15680	96.7098	273.8575	6.1922	381.0013	78.6346
22927	96.2985	80.6800	2.7407	49.9837	20.6109
18770	96.1222	1048.2350	23.5202	815.4359	198.3582
17148	96.0635	1515.3775	58.0015	2121.9175	1202.8012
15185	95.9459	52.7500	8.5743	10.8489	20.7831
23476	95.5934	80.0800	9.4122	37.6997	20.2448
588	95.5347	603.0625	160.4995	292.8663	123.4761
20971	95.1234	168.7625	27.7016	97.9652	31.4898
18498	95.0646	362.4950	48.8014	237.9669	55.3153
1894	95.0646	152.7775	70.7713	43.3173	33.9542
18293	95.0646	1173.7925	191.4276	650.7958	376.4664
23606	94.9471	1288.4300	61.0481	707.0604	307.5750
1452	94.8884	43.8050	2.4811	22.0579	23.9498
15247	94.8296	185.8475	40.0699	86.9354	67.3857
17038	94.6533	66.3425	1.0742	59.4068	22.5247
15070	94.6533	383.4025	28.4470	233.9208	113.1518
6186	94.5946	16.0100	2.4790	38.2356	15.6908
15617	94.4771	400.4675	51.6396	201.6870	88.7584
18880	94.4771	27.1700	0.7835	38.3344	14.6592
18819	94.4771	13.1125	1.5058	32.8089	25.3797
5082	94.4771	15.8325	1.8449	38.3230	21.7301
15065	94.4771	1961.4525	86.8331	1532.0825	235.0390
17147	94.4771	1412.1600	84.0696	1707.8871	972.5256
5545	94.3596	795.6750	61.2153	541.0846	273.6306
14495	94.2421	296.0575	46.8945	141.6292	75.5057
17405	94.2421	227.2500	23.4433	151.0875	34.9581
22918	94.2421	281.1625	26.4957	181.7123	65.5175
15462	94.1833	257.1725	24.1116	154.9751	51.8824
15613	94.1833	846.3575	67.1071	674.9760	518.1259
16085	93.9483	151.4400	10.9074	97.0474	51.1449
20816	93.8895	1666.0425	205.6872	848.6562	391.0413
15409	93.8308	389.8400	102.0706	200.4241	126.0301
25090	93.8308	303.4975	51.9820	174.2674	116.4047
20494	93.8308	346.1925	25.6480	193.1211	182.9982
24414	93.8308	127.9050	5.5826	186.7428	60.7967
19679	93.8308	123.2850	12.7115	73.8356	49.4282
13647	93.7720	3110.3900	292.9675	2116.8030	494.8018
7602	93.7720	503.1075	68.6070	350.0570	100.1551
10625	93.7720	68.4375	5.5900	88.9577	102.5892
20082	93.6545	258.3075	20.2642	456.3180	167.2140
20626	93.5958	25.4950	2.8334	212.3910	258.7079
900	93.5958	81.8300	1.4305	103.0382	46.2318
7176	93.5958	249.6175	8.8826	306.3545	134.8480

TABLE 5II: METHOTREXATE					
Timepoint(s): 24 hrs			Attorney Docket No. 44921-5113WO		
			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10744	93.5370	26.2825	1.3941	52.5943	48.3760
322	93.5370	54.0900	5.1645	169.2000	179.7712
16929	93.5370	2494.2550	93.0786	1977.7266	399.3377
21066	93.5370	226.9925	8.5947	185.0588	44.3376
20506	93.4783	8.8925	1.6305	22.0405	11.6196
14924	93.4195	89.9875	3.1669	100.7847	40.5684
24230	93.3608	33.2700	1.1967	50.5807	22.5714
1949	93.3608	41.7675	3.1001	78.9844	38.2777
25278	93.3608	18.8975	3.7631	41.2576	16.9317
23884	93.3608	312.1475	18.0190	227.6588	122.2230
20752	93.3608	25.8000	1.6951	44.4663	23.2110
235	93.3020	159.7975	3.7628	218.4270	85.6380
15190	93.1257	4878.0975	257.9775	3996.1034	1991.4783
22816	93.1257	89.7275	4.1383	83.0229	46.3391
17806	93.0670	15.7625	1.2494	38.0751	24.0211
3454	93.0670	455.4000	122.3485	225.6620	110.1268
9125	93.0082	1099.4400	142.0536	778.9801	160.2297
5622	93.0082	1975.6775	148.1399	1314.6977	443.8772
16446	92.8907	31.7450	0.9219	21.7796	17.9094
20256	92.7732	15.1800	12.3642	51.1496	20.3824
1522	92.7732	263.4025	28.7757	133.6994	79.9112
16006	92.7145	269.2175	43.0871	152.4622	61.8644
4749	92.7145	1135.2200	181.0063	702.0827	504.7945
19108	92.6557	14.7425	0.8058	33.2413	30.3907
18373	92.5969	195.6175	4.3006	170.5967	47.4867
1962	92.5969	233.6450	6.0973	211.2093	71.3165
683	92.5382	21.0650	0.9674	28.5274	19.1235
4500	92.5382	38.2050	1.6964	34.4284	25.9024
17516	92.5382	166.1125	6.2496	136.3439	61.1737
25628	92.4794	9.9300	0.9491	22.1675	24.9067
17101	92.4794	704.7825	53.2664	456.4563	164.7814
11239	92.4207	37.1925	5.2667	66.2386	20.9728
18719	92.4207	284.2675	42.8976	128.7070	94.2701
21039	92.4207	225.3675	12.8997	189.2275	102.7062
9124	92.3619	759.3625	82.4816	516.5759	132.6683
24831	92.3619	3.2925	4.4105	26.2438	18.1914
8149	92.3619	26.6800	2.2212	8.2802	22.3771
16510	92.3032	97.7275	5.3012	173.6416	80.4808
243	92.3032	30.5325	7.3067	10.4220	11.6372
4574	92.2444	507.5450	51.3001	325.4974	128.4550
16178	92.2444	227.7225	4.5155	215.2447	51.1290
10499	92.2444	24.3500	1.8310	34.6916	22.6256
23142	92.2444	20.0875	0.7782	20.5815	13.4998
20254	92.2444	23.9575	0.7647	23.5902	12.5602
15715	92.1857	20.4775	1.8725	40.2691	23.3488
11827	92.1857	23.3175	1.5111	39.0067	15.3476
1349	92.1269	0.1625	11.3661	26.2791	13.9915
446	92.1269	19.0450	8.9604	75.7350	40.4414
4478	99.4125	253.3550	33.7523	39.3299	46.6318
16170	99.2949	622.9800	145.5328	84.1214	44.0348
15490	99.2949	105.4150	1.1279	183.8671	52.0361
19623	98.8249	388.2475	95.6089	97.2484	49.9334

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TABLE 5II: METHOTREXATE						Attorney Docket No. 44921-5113WO
Timepoint(s): 24 hrs						Document No. 1926271.2
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
4479	98.5899	3930.2175	369.4428	1505.0518	614.8657	
9859	98.4136	81.5200	7.3761	34.0130	18.9532	
11251	98.2961	38.4000	1.1192	72.6993	40.1008	
16200	98.2374	233.3625	51.0417	89.3401	34.7569	
7256	98.1786	138.8175	4.6945	211.4434	43.9867	
6692	97.9436	256.3525	2.6133	369.6612	122.6341	
2175	97.9436	167.5000	2.6452	230.3706	52.2801	
4145	97.8848	3242.4150	72.1777	2172.0107	575.1020	
8675	97.8848	87.7075	34.6030	26.6188	15.9094	
2423	97.7086	68.4975	6.0140	142.3865	37.7050	
19004	97.6498	100.3000	17.0370	28.7777	24.2586	
3458	97.4736	2086.8775	142.2480	1322.9845	288.7572	
7357	97.1798	210.6100	20.0974	87.1841	65.9154	
14664	97.1210	698.4950	78.6754	340.0358	112.8105	
17358	97.1210	673.4550	19.4221	491.8627	215.0951	
6609	97.1210	2160.1400	689.1251	1051.0102	264.6512	
2702	97.1210	1074.0975	22.2284	820.2170	298.6323	
2131	97.0623	137.6400	1.9228	106.1079	30.9712	
5778	97.0623	59.8250	19.9205	-2.2473	22.2939	
16788	97.0035	2.5875	2.9285	27.2398	20.8848	
9180	97.0035	105.7525	8.6576	224.3777	71.0851	
14963	97.0035	961.6650	99.0968	609.5110	124.9709	
4903	97.0035	151.0125	3.2735	102.0087	76.3451	
12591	97.0035	142.5475	23.9319	52.5554	38.1639	
5331	96.9448	514.3025	28.4177	355.5425	66.0558	
10659	96.9448	64.3325	8.7835	211.3114	122.0529	
2860	96.9448	75.9725	1.9214	45.8183	36.1359	
4978	96.8860	142.0250	5.6075	110.8151	76.9979	
14458	96.8273	1110.3025	228.2936	409.3735	235.9479	
21744	96.8273	116.8225	11.0365	54.4326	46.1965	
8709	96.7685	227.8850	2.7725	197.8782	63.4392	
5141	96.7685	498.8500	52.3600	235.3173	218.4001	
23768	96.7098	512.6650	33.5774	255.4822	100.1498	
17673	96.6510	48.3725	0.9239	68.1339	32.5216	
13020	96.6510	35.2575	3.3009	82.5663	46.2626	
19274	96.5922	88.6000	1.6626	88.6161	41.5406	
4490	96.5922	466.8325	34.6372	261.4696	88.7176	
4511	96.5922	146.4175	1.8578	168.0691	52.6716	
11050	96.5335	1962.9600	42.6975	1448.8893	344.8602	
2813	96.4747	929.5275	43.1944	539.8080	207.7774	
8656	96.4747	0.5800	1.8501	27.6007	22.6679	
21253	96.4160	237.4450	1.8376	262.4011	76.7061	
6321	96.2985	1435.1850	105.4879	864.2324	251.4640	
16405	96.2985	326.9850	34.5820	100.6520	105.6468	
18650	96.2397	2699.5475	120.7457	1811.3960	939.4109	
3814	96.2397	327.5850	14.6617	538.8142	178.9819	
1900	96.1810	264.6625	101.3604	52.4651	59.3353	
18547	96.1810	20.7975	3.3042	-23.5748	44.3695	
3860	96.1222	461.9950	15.0908	310.3824	134.2913	
15085	96.0635	1734.6925	151.9368	1013.2154	335.5037	
23270	96.0635	1746.4625	394.0203	866.7104	275.8191	
5870	96.0635	49.6425	1.6905	84.5613	41.6240	

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TABLE 5II: METHOTREXATE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17297	96.0047	1183.9300	79.6871	836.9459	164.3416
23989	96.0047	536.6950	24.8387	328.6852	156.6940
6508	96.0047	1309.2450	126.3835	806.7096	209.2004
5110	95.9459	447.8775	64.3858	259.6879	70.8334
14527	95.9459	311.2150	17.0761	163.3598	86.7028
22490	95.9459	1233.0175	41.7023	930.9652	171.4620
17871	95.8284	94.1975	3.2028	151.7754	55.6268
2326	95.8284	267.8525	53.3661	114.1202	61.4368
16458	95.8284	544.4925	30.7026	881.2658	240.8147
21200	95.7697	83.7975	25.3783	31.0232	27.7236
21341	95.7697	299.8425	22.6253	179.6793	153.2591
17221	95.7109	914.3700	176.8225	306.6860	240.0347
13098	95.7109	416.1925	74.5825	189.4046	94.6685
10535	95.7109	126.8375	8.2040	56.9928	42.3105
3087	95.7109	22.7400	2.3631	-0.4132	25.4431
5556	95.5934	117.3775	6.0059	212.3910	101.0605
8584	95.5347	95.3525	10.6951	286.5994	213.9990
6420	95.4172	26.2325	3.6621	52.4480	18.9841
14459	95.4172	5073.1175	345.0341	3213.2884	1561.8458
12164	95.4172	145.1750	41.0850	54.8388	40.8187
2841	95.3584	209.4400	57.3285	76.9743	62.3557
7415	95.2996	36.8800	1.6405	64.3555	27.1996
20102	95.2996	532.5725	52.7588	289.1738	108.3973
2699	95.2996	179.2000	5.7969	113.1428	49.4064
21947	95.2996	105.2000	3.9145	158.2160	49.0972
1957	95.2409	590.3575	97.5197	259.9034	160.4302
1587	95.1821	49.9900	5.3774	116.5100	52.7200
21568	95.1821	157.6500	5.1840	100.9895	61.0855

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TABLE 5JJ: Lovastatin			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20927	99.8826	418.4033	2.5815	113.3893	53.0130
400	99.6479	211.8333	59.8192	28.1289	27.8925
21743	99.5892	53.2567	0.9908	25.1074	11.6496
21842	99.4131	1759.2967	158.2677	476.5565	251.2509
25235	99.4131	8.2833	0.3325	26.5078	13.8735
16449	99.3545	967.5500	169.6212	162.2961	127.1987
20600	99.2958	1354.7867	227.2991	208.2581	179.7589
20930	99.2371	439.7533	117.3833	66.1404	82.2614
16681	99.1784	758.1467	45.5046	206.6474	114.3653
14213	99.0610	29.1733	0.2723	2.4658	26.2495
10184	99.0023	180.5267	26.1860	46.9239	28.5379
19073	99.0023	880.9800	76.9139	460.7396	98.6445
20856	98.8850	42.3233	5.4905	10.7732	34.0516
18958	98.8263	127.8733	2.0078	87.0267	69.6744
1403	98.7676	73.2267	1.7790	28.9256	19.9918
301	98.7676	192.3867	14.2719	69.9240	30.0087
20601	98.6502	1772.6733	342.2460	375.7806	292.3960
16043	98.5915	91.6933	0.9266	149.7053	46.1791
7228	98.5915	40.6633	1.1014	18.8916	11.2096
12082	98.5915	312.7633	22.0812	151.1902	100.0322
1794	98.5329	4422.3000	900.1011	824.2779	743.0357
17079	98.5329	1401.9400	19.0636	969.6651	210.5228
16795	98.5329	24.3567	0.2371	17.5994	5.4072
302	98.4155	47.9633	8.7480	-2.7688	15.4036
16450	98.3568	454.0367	86.6079	150.8375	61.5897
23324	98.2981	277.1233	27.6730	44.4673	61.9610
1793	98.2981	1782.6100	448.0249	341.0809	331.6712
672	98.2981	65.3800	2.7670	20.8450	24.5092
17270	98.2394	48.6933	10.3132	190.2869	73.2420
25799	98.1221	734.5333	81.4099	211.2542	138.0236
15069	98.1221	2045.6033	190.3191	760.8230	340.3016
16180	98.1221	36.4200	1.8173	94.9863	43.1139
25460	98.0634	2955.3233	692.7500	862.0108	434.6490
53	98.0047	19.5933	2.1781	69.7856	44.2971
303	97.9460	104.9033	18.7208	31.6969	18.4756
10185	97.8286	82.4767	17.4274	27.8049	15.7228
18578	97.7113	546.3033	151.1919	135.9693	99.2602
1797	97.7113	1637.3700	149.4107	582.4666	479.5996
16148	97.7113	823.1133	48.4926	486.1914	363.4403
1795	97.6526	563.1767	159.6419	176.7671	186.3559
21701	97.6526	111.8300	33.7092	25.1573	25.1701
16133	97.4765	31.9733	1.2007	14.3059	12.3841
21674	97.4765	113.3533	10.9405	54.8340	26.4143
1214	97.4178	7.6033	0.6086	30.6105	25.2006
11455	97.4178	81.8067	1.2506	126.0980	69.0474
12083	97.4178	219.1167	23.0824	104.4182	66.9390
25165	97.3592	52.2433	11.4294	6.3894	23.8171
17516	97.3005	318.4100	54.8440	135.8426	60.1494
15124	97.3005	2820.7000	123.4586	1895.2553	454.9416
20929	97.2418	42.1200	20.6125	-24.4099	28.9264
3217	97.1831	117.4767	1.3717	150.8239	44.0102
15070	97.1831	575.0833	109.8727	233.4213	111.6120



TABLE 5JJ: Lovastatin			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15870	97.1244	50.9633	6.0391	2.6426	24.5808
24492	97.0657	27.6167	0.4428	48.6702	29.0322
18628	97.0657	2905.6700	26.6782	2830.1670	655.7460
18686	97.0070	1599.9800	327.6689	561.1464	481.2315
265	97.0070	8.2500	0.5524	20.9482	12.6321
18433	97.0070	166.9767	50.7015	40.5687	40.2194
15242	96.9484	117.1500	2.4419	83.4987	19.7194
21396	96.9484	61.8833	1.2133	80.9484	49.1660
20734	96.8897	1826.6667	202.6219	965.7175	334.8584
17078	96.8897	969.1133	99.4160	579.8997	136.9298
24008	96.7723	32.7000	2.0004	65.4352	21.9437
2801	96.6549	242.7300	22.7167	109.6117	62.1573
20851	96.6549	259.2733	89.7528	89.2108	66.1521
8269	96.5376	51.6733	7.0072	337.0788	372.2556
623	96.5376	10.7967	0.4148	23.5512	14.6994
2811	96.5376	353.7067	76.7939	165.3938	60.3210
1858	96.5376	158.5467	73.3101	43.6301	209.0738
1058	96.4202	545.9300	174.9288	179.7191	112.0260
16150	96.4202	556.4833	165.1654	255.2688	185.0642
22669	96.4202	25.6967	0.9322	18.2186	13.4535
17377	96.3615	295.5767	4.3769	231.2182	84.3403
17726	96.3028	11.5533	0.6490	28.1848	17.3781
9527	96.3028	10.1767	1.0719	27.5415	16.1037
14543	96.2441	93.3200	5.4317	41.7104	35.7218
25705	96.1854	2056.1833	18.1883	1879.5848	390.5156
15420	96.1854	79.1767	37.2290	-2.7356	33.6705
14979	96.1268	13.4233	0.4652	22.1072	11.0482
25693	96.1268	93.2233	15.3193	38.6779	19.4919
19110	96.1268	237.8700	60.4025	101.2704	50.0630
18083	96.1268	134.1267	37.3043	44.7062	64.4987
668	96.0681	5.7067	1.1500	24.9866	15.4893
15311	96.0681	23.8733	2.1220	60.7624	33.8879
15316	96.0094	24.6267	0.5859	33.5688	8.6423
12347	95.8920	21.0867	2.8197	58.0368	32.7780
19864	95.8920	10.4567	1.1707	25.5307	13.2537
2143	95.8920	625.3467	115.3647	400.4284	82.2891
19997	95.8333	28.9500	3.4564	83.8980	42.4852
24470	95.8333	6131.1300	80.0810	5119.0356	1254.3877
11138	95.8333	146.2100	28.9443	390.9625	143.1250
1409	95.8333	187.5267	17.3800	115.4200	39.2139
15126	95.8333	3006.3167	226.3711	1884.8744	640.8967
15409	95.7746	430.7767	74.3179	200.5022	125.9771
24672	95.7160	33.0200	1.3444	56.2307	21.2694
900	95.7160	55.7767	3.6606	103.1051	46.1419
23340	95.7160	480.0833	165.5208	240.0502	72.8686
1463	95.6573	271.7433	12.1122	144.9562	85.3364
3381	95.6573	258.7900	23.8365	158.9408	39.6434
13282	95.6573	14.3400	2.6600	45.0552	23.2514
5275	99.5892	76.3900	0.0500	57.0412	25.4214
16451	99.5305	1327.3300	51.1486	473.3104	204.2199
21744	99.2371	279.5000	66.7646	53.9331	44.2836
7178	99.1784	39.1200	0.1609	44.1848	21.2908

TABLE 5JJ: Lovastatin			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23305	99.0610	164.2033	0.3700	149.5682	49.0753
13310	99.0023	-11.1067	0.4761	35.4194	51.8867
7749	98.8850	2254.4967	3.5487	2077.7157	442.2286
3995	98.8850	229.0033	0.9393	265.2511	115.1490
23976	98.8850	252.8933	60.1101	55.4523	34.0821
21354	98.6502	1518.0500	194.2846	558.3923	524.3590
16452	98.3568	404.1033	94.8919	100.9331	57.3587
21742	98.3568	242.6400	91.6185	63.8324	33.3074
2733	98.3568	323.7967	1.1354	362.5797	101.6879
4738	98.2981	0.3300	0.4949	23.2273	33.7390
6946	98.2981	218.2333	1.4514	247.2899	73.0520
13661	98.2394	22.3400	5.1517	-70.1548	58.4132
15467	98.2394	136.1867	34.3408	28.9510	27.4871
21490	98.2394	130.8967	0.4521	130.4203	35.6975
19412	98.1808	255.2533	1.2656	309.8956	83.1884
6218	98.0634	239.3033	11.7302	99.4843	93.9005
12769	98.0047	6.4900	0.9778	38.6290	40.3937
11339	97.9460	849.9000	253.3613	321.7828	117.3687
5836	97.8873	169.6200	2.6881	119.7898	44.8496
9162	97.8286	64.4600	0.4850	93.3089	44.3630
16921	97.8286	53.3000	1.1623	52.4200	59.7731
13642	97.8286	49.7233	4.0619	9.9944	19.4115
4271	97.8286	106.5567	15.1922	43.1284	52.8679
3145	97.8286	302.6600	14.4823	205.8981	73.8242
26368	97.7700	647.1667	277.0430	125.7676	113.1102
21256	97.7113	276.4833	36.4828	147.1130	38.4847
3284	97.5939	40.4167	0.6174	21.7506	34.6959
22070	97.5352	97.3767	23.9684	19.3904	27.8515
16814	97.5352	46.6633	0.8895	33.4532	27.3650
18154	97.5352	59.4500	1.4581	43.7136	32.4113
5436	97.4765	192.0667	4.1349	134.3838	33.9482
26109	97.4765	368.6667	96.0761	87.4173	168.9479
1846	97.4178	424.1500	5.4854	379.1411	128.0955
16477	97.3592	124.0867	1.3126	147.8176	47.8360
15015	97.3592	159.3833	1.4692	153.2373	48.8767
23805	97.3592	40.0467	1.2513	21.5554	40.3252
11887	97.3592	-24.3400	5.2519	36.6269	33.6864
22975	97.3005	51.4800	0.6951	78.3204	39.4851
9404	97.2418	456.5833	101.9537	143.9889	81.9557
13055	97.2418	968.5733	300.4569	400.6792	160.2766
23662	97.1244	23.8900	0.5556	35.4516	20.4679
5895	97.1244	25.2300	0.5600	42.9689	34.6221
4171	97.1244	328.0800	4.7753	250.3335	54.2628
8344	97.1244	1195.5333	171.4617	479.2807	221.3820

TABLE 5KK: NECROSIS			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17920	80.0697	38.3436	9.0101	62.2006	23.4918
17075	77.4477	929.9793	188.1424	739.2324	155.8287
22124	77.2387	209.2132	66.9924	127.1095	55.0989
22352	76.9774	774.9868	320.5275	423.8816	209.1626
11455	76.6725	254.6658	125.1524	120.4483	59.7698
25370	76.2892	21.4781	18.3930	69.5996	48.7982
11454	75.9408	430.6366	181.5251	222.1117	91.7977
21062	75.9408	69.4435	32.0303	39.0280	19.3894
15011	74.9303	266.7018	80.5040	166.6836	56.4077
6980	74.9303	28.0729	12.3628	51.1270	20.6641
22351	74.8519	148.9433	84.9063	68.8754	32.4693
20649	74.7909	127.4411	74.3348	355.6391	315.3982
17269	74.5557	99.3490	26.2678	161.6115	62.5549
24351	74.3641	33.3740	15.4845	15.5224	17.5061
923	74.3118	337.8270	108.6251	187.5766	107.0027
22603	74.2770	54.7977	14.6347	91.7960	51.3270
15980	73.8240	18.5626	12.9912	24.4253	9.7292
904	73.7892	35.7691	14.4163	49.7555	12.7623
1928	73.6847	86.3779	35.9660	127.2356	39.4153
21709	73.6411	88.1469	26.6125	138.3089	58.1437
110	73.6063	129.5578	52.6346	236.7910	131.4242
1306	73.3885	236.1643	102.9236	148.5107	53.3042
21377	73.3449	94.3646	39.4146	146.1809	52.1614
12041	73.3101	325.4678	39.5950	286.7209	73.6771
1598	72.9965	641.3303	391.1521	266.6013	255.3939
20590	72.9791	367.9407	98.8018	258.0404	83.0054
14997	72.8833	266.4679	148.9493	475.8273	214.6599
7784	72.8484	21.1661	7.1694	34.6987	16.4081
24431	72.7787	801.7437	388.5459	386.6035	293.0287
24377	72.7352	122.4135	35.1097	163.9703	43.8338
15335	72.7265	1055.5643	220.0266	817.1732	223.2226
17115	72.6655	9.6915	11.2243	25.1383	17.3046
23486	72.6394	439.4203	83.8663	334.4661	90.9429
16721	72.4826	87.4051	21.2385	125.0433	49.0228
17921	72.3868	72.8541	21.8406	120.8407	66.6905
19712	72.3345	15.1474	9.2968	28.9964	16.9365
19790	72.2822	8.2864	13.0673	25.2252	17.3294
644	72.2038	25.5829	7.4067	36.9493	14.8267
108	72.1777	1113.4153	280.1024	1589.2162	618.0346
18396	72.1429	584.4188	172.0002	388.2735	198.9895
7266	72.1167	483.2693	120.1489	370.0215	111.6983
19952	72.1167	12.3256	8.6754	29.7371	23.9886
20996	72.1080	328.1281	82.0256	247.6915	90.1976
18043	72.0906	207.7032	73.6053	132.4898	77.7098
851	72.0906	125.9281	26.0197	178.0581	58.2422
22582	72.0035	46.3573	15.6996	82.4915	39.9133
17800	71.8815	72.2586	23.3348	97.3041	28.2168
16330	71.8467	124.4710	34.5870	181.0862	62.0100
23044	71.7596	89.7656	21.4423	122.9436	36.5296
15023	71.7073	273.4780	54.2338	364.0158	82.7244
353	71.6812	664.1139	330.9229	402.2658	238.4323
18393	71.6812	253.9495	74.3068	194.5012	45.1152

TABLE 5KK: NECROSIS					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15996	71.6812	351.7576	132.3120	243.0037	154.3310
15642	71.6725	1360.6299	394.5207	914.1193	311.4168
12118	71.6202	79.4936	18.9150	123.0281	72.4727
9427	71.6115	14.1383	8.2399	21.0964	9.5689
17289	71.5418	41.8047	24.5356	69.2088	44.7394
15683	71.5331	110.0602	34.2438	77.4863	39.7467
15421	71.4895	337.5454	66.5270	423.6442	90.6590
14970	71.3850	40.5913	19.3083	59.8316	25.6275
20650	71.3240	297.5755	156.2199	617.9650	407.9945
12496	71.2979	14.6159	8.1158	26.2176	13.7236
11483	71.2805	673.2156	276.4610	382.7948	245.8432
16346	71.1498	207.6587	67.8226	159.1452	65.5184
24589	71.0453	137.0346	41.9089	97.9149	42.4671
19824	70.9930	57.2717	23.9351	98.0851	46.9532
17101	70.8711	625.0768	185.5572	450.4705	160.6608
22567	70.8624	141.5358	44.3199	177.7156	44.1501
111	70.8362	2102.7169	533.6692	2897.0542	982.3695
12524	70.8101	716.0642	91.9846	586.4459	176.6639
590	70.7753	71.4830	31.8044	46.4696	16.5543
16198	70.7753	81.7747	15.1381	107.6850	36.4200
13968	70.7230	12.1374	7.6730	22.0347	13.4951
20351	70.6359	92.4308	26.8712	62.1860	23.5756
11992	70.6010	14.5313	7.0889	22.3634	9.3980
18582	70.5749	120.0169	45.9230	171.3781	58.3542
23522	70.5488	351.2867	102.6773	248.0025	75.5654
25058	70.4965	58.0787	14.3296	85.4347	46.3468
22537	70.4094	15.2366	42.8309	59.9172	66.9252
24582	70.4094	101.6503	25.6652	73.2939	30.0576
19472	70.3310	897.1327	186.3170	729.1925	153.0911
15376	70.2526	288.6977	61.4146	241.5779	64.9371
606	70.1394	20.6348	30.9106	-9.4605	31.7587
24205	69.9652	53.5023	19.6757	73.6951	23.8416
15759	69.9477	7.5711	11.4410	29.1228	33.2488
23368	69.9216	16.8977	15.3530	43.2722	35.3567
23417	69.9216	612.6607	117.2837	482.7822	124.7775
17891	69.8955	66.8302	18.8712	53.5766	19.5831
15274	69.8955	30.4077	11.9888	44.4288	20.0761
2947	69.8519	115.6635	44.9945	80.6217	31.7198
2114	69.8084	42.0145	15.9457	30.9996	15.7042
3254	69.7909	579.7408	111.9107	477.5422	126.0688
1478	69.7648	33.8458	14.9743	64.2203	48.1580
24066	69.6690	37.4509	15.7547	53.0857	17.6178
4402	69.6429	37.6766	11.1233	24.7345	14.6692
25550	69.6167	167.8484	63.1772	123.7603	44.9259
15446	69.6167	535.0001	102.3790	436.7580	106.5110
21012	69.5557	809.3135	221.7808	1235.4895	636.6529
619	69.5296	46.6199	27.5964	100.2451	66.3919
15839	69.4861	473.9767	101.3837	375.8462	117.2470
3493	78.5453	157.7257	53.4088	96.6981	45.6069
5079	77.9181	34.9935	18.1748	65.9913	26.1265
2752	77.7875	189.2381	67.7181	299.7008	104.4101
20350	77.6916	21.8303	20.8462	83.5036	63.0048

TABLE 5KK: NECROSIS			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15644	77.3345	2152.0352	569.7626	1486.4810	368.6595
18612	75.8275	303.3538	68.1801	219.4783	66.4105
3759	75.8188	428.1330	148.5632	265.2457	79.4874
11729	75.8014	286.3255	61.2661	224.2657	51.3001
17506	75.3833	991.7645	526.2289	459.8825	398.9085
16	75.0523	201.2281	67.2891	333.9753	130.5508
4952	74.5557	1329.7272	367.7772	921.5617	365.4266
21664	74.4338	607.1335	110.5190	496.1032	94.3458
2655	74.4164	1722.0852	703.9498	914.6900	429.3902
4478	74.2334	104.6377	62.7281	37.5864	46.2176
16053	74.2073	619.4755	163.5583	455.3507	202.6089
16727	74.1986	390.2727	110.0896	262.5911	91.1953
17077	74.0592	24.1458	18.2202	41.7346	17.8179
9551	73.9024	215.2315	57.7361	289.8123	67.2129
16172	73.7979	2.1601	57.7105	117.1523	114.4852
11714	73.7108	119.9341	66.0431	251.7749	126.4212
2049	73.5714	249.0791	77.3602	163.8734	80.6935
14664	73.5366	508.4789	174.3481	334.5948	106.5554
14455	73.5017	72.8721	46.0236	152.4548	78.2442
13751	73.4408	265.5317	111.9122	167.4223	84.8957
10921	73.4233	48.6621	20.8625	101.3293	64.9434
18434	73.3624	669.4561	363.2245	401.6426	143.0873
18115	73.3362	36.2951	40.5990	108.1464	76.8892
2893	73.3101	1458.2634	329.0475	1113.8686	268.9892
18973	73.2753	566.7653	103.2776	447.6540	97.2513
14500	73.2753	21.0660	11.7626	42.6222	25.3222
8919	73.2056	693.8281	108.6115	583.9227	125.1144
22666	73.1794	409.8058	290.5020	177.2822	91.7395
21838	73.0923	368.4374	104.2854	296.7553	90.4084
15012	73.0749	248.5351	59.1067	195.7161	45.4367
3074	73.0662	28.8661	21.1530	46.1346	23.8125
16445	73.0662	237.3843	74.8845	341.9308	116.7969
21458	73.0139	3657.2085	1407.0886	2365.4449	952.3838
12309	73.0052	63.0746	28.7549	122.5813	65.8386
1398	72.9791	822.7953	154.9155	638.2734	132.0797
6454	72.9094	590.1262	111.1155	465.2511	103.1415
9575	72.8833	1004.3643	202.2357	773.6202	182.7943
13618	72.8659	280.7163	75.2017	210.1907	48.7580
7859	72.8659	277.5761	102.2599	179.8015	57.6382
6897	72.8397	396.7161	182.5419	244.6128	99.5196
26119	72.8310	369.2091	106.2482	270.3274	74.5288
7888	72.7875	1040.1900	126.0448	867.5961	220.6643
6732	72.7613	240.9802	66.8766	161.8444	60.5056
13617	72.7003	118.1744	45.7021	71.3702	40.0602
22995	72.6655	147.9133	65.2800	320.0601	212.0194
2250	72.6655	3116.7285	2087.6885	1585.4786	455.3688
7503	72.6307	64.1075	36.2318	20.2857	38.3991
21579	72.6220	567.4052	230.4537	310.4827	162.8993
23299	72.5958	2239.8694	938.3187	1205.3177	516.1230
13262	72.5697	94.9640	29.9016	117.6449	25.8202
10666	72.4477	950.0980	220.3205	769.9632	207.3944
23068	72.4390	253.0267	170.6231	302.4363	96.7734

TABLE 5KK: NECROSIS				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13286	72.3606	156.1631	87.2274	294.9002	154.5629
16199	72.3345	35.9991	17.4281	63.6990	34.4261
21637	72.2735	79.7772	37.9251	52.2732	31.4657
7751	72.2300	53.2511	26.9113	26.4616	16.8289
23797	72.2213	95.8227	29.1378	135.5160	39.7547
13054	72.1864	195.7559	60.6047	135.0139	49.9788

TABLE 5LL: Necrosis Steatosis			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1460	86.9203	1131.9257	370.1441	2130.0026	699.1047
17075	86.1984	1018.8143	225.9918	742.5166	156.5896
15613	85.3109	795.8550	119.0225	673.7789	520.9051
15618	83.3404	516.1621	167.8901	262.3236	119.8459
15087	82.0282	299.5657	98.4621	183.8733	46.3201
23344	81.7394	533.6343	79.0021	382.1465	111.3879
21014	81.6842	348.7379	111.1647	835.1538	437.1708
18606	81.4464	2736.8264	323.8934	2172.7095	575.2254
11849	80.9665	2042.9307	295.1152	1585.8016	339.0811
12639	80.8519	3387.4550	451.2738	2725.0270	613.4226
26030	80.6735	2216.0350	368.4115	1673.4775	519.5605
17806	80.6141	15.4229	5.0786	38.3460	24.0257
18498	80.6013	352.5436	85.5702	236.6518	53.3358
2697	80.3126	3636.0843	505.4993	2868.7516	614.8873
18725	80.1979	36.5929	16.4693	93.6860	59.2219
19393	80.1894	1182.9350	195.2072	887.5899	188.7115
20821	80.0790	2739.7943	392.5381	2181.0195	511.5872
1660	79.6034	33.5621	12.9688	25.4903	33.9328
19181	79.5312	130.7521	40.3302	91.4241	22.0037
4338	79.4165	33.8029	16.8993	45.1189	12.1405
15617	79.2976	311.9450	107.0859	200.7970	88.2533
23950	79.1235	110.0879	22.3251	86.8508	24.4581
4723	78.9961	802.8929	233.5520	513.3254	164.6922
17211	78.8899	3470.2293	547.8829	2677.7388	843.7772
16257	78.8305	123.2543	49.2732	213.9442	82.4859
16918	78.6479	3946.7929	799.0535	3007.2162	881.3853
24885	78.6479	2668.2607	340.8049	2070.9885	502.8365
20427	78.4653	2255.7457	325.2806	1783.0066	336.2120
19440	78.4058	233.8007	69.0349	153.2042	61.2243
16929	78.3506	2442.4479	274.9464	1972.4472	397.3326
7602	78.2827	476.4700	112.1302	348.6806	99.0757
14934	78.2275	150.1843	25.8397	112.2519	24.6454
91	78.1765	19.8621	15.2651	42.9847	21.3559
15653	78.1722	2877.2700	424.5008	2354.3188	487.4316
3027	77.9939	3045.2657	499.7961	2334.0081	593.4579
10109	77.6966	3767.2500	597.6565	3020.9121	694.3495
24351	77.6839	61.1521	35.1339	15.5058	16.3701
21643	77.5735	3047.5600	631.9779	2287.2096	617.2572
455	77.5268	112.2621	31.5889	240.7281	147.3238
15372	77.5183	541.2636	85.0003	426.9278	95.8528
23574	77.4588	2725.3907	493.5538	2095.1231	550.2913
9125	77.4503	1009.0850	208.7290	776.6738	158.0450
15024	77.4078	14.4500	12.8522	82.6434	161.2384
132	77.4036	67.8029	41.6696	156.2195	82.0397
798	77.3994	69.7107	13.0959	52.3635	22.6229
2327	77.3441	56.7986	7.9340	73.2741	17.9329
17533	77.2295	44.5914	24.7848	100.2055	71.0683
21916	77.2083	1134.9050	288.7272	752.5776	153.7826
15247	77.1573	140.1829	56.8807	86.5195	67.4516
446	77.1063	34.0707	18.8441	76.1590	40.4471
24886	77.0426	2980.9943	455.6850	2499.5401	489.8961
9620	76.9832	1664.6379	215.1824	1351.6575	294.2379

TABLE 5LL: Necrosis Steatosis				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20744	76.9789	109.7321	42.1667	73.1486	47.9778
20490	76.9195	7.9036	19.3258	42.7810	26.7394
1169	76.8685	101.8800	31.1476	179.9508	85.3322
15489	76.6137	92.8043	30.5782	58.7641	15.9184
20994	76.5585	244.2257	66.6315	157.7852	59.2296
20056	76.5161	35.8129	5.3299	87.5812	100.9942
21646	76.5033	86.5457	34.9826	129.3309	33.6846
855	76.4524	11.5886	4.1920	19.7018	12.1565
17808	76.4439	1919.7657	344.1665	1507.1252	342.6570
1190	76.3971	16.0264	4.9392	26.9857	17.2884
20844	76.3292	2664.5607	550.0108	2073.5578	637.7959
20816	76.3207	1313.3264	544.2307	844.8086	387.1292
21012	76.1551	641.3886	188.5077	1227.6432	631.0770
15065	76.0829	1848.9443	275.9505	1528.8499	232.2574
16953	76.0319	1852.3721	265.4180	1518.4018	329.6201
13090	75.9725	42.6543	42.0946	80.1787	44.1597
16047	75.9173	58.9493	18.1730	91.8075	36.3698
1598	75.8493	435.1200	211.1990	279.3911	272.6018
17541	75.8493	1601.3786	602.9470	2966.0588	1068.2520
7427	75.7389	343.4343	67.5622	276.6882	94.3950
25203	75.7347	26.9443	33.7616	58.6066	32.7021
21379	75.6837	26.5021	7.8208	36.5862	21.3364
20456	75.6710	216.2993	48.1083	137.5332	61.8848
21083	75.6582	69.7314	53.9077	32.0826	12.6240
17257	75.6582	91.2200	90.7154	32.1795	20.5436
4957	75.6200	89.3364	22.5009	148.7077	68.2029
20798	75.6158	134.8007	37.8123	191.6162	52.2724
15680	75.6158	297.3757	52.9811	381.8838	78.4285
14881	75.5606	185.8586	148.2117	440.8951	277.6613
11997	75.5521	146.7000	36.5716	108.1219	39.9321
25389	75.5011	3.0786	42.6249	76.7262	81.4775
15535	75.4969	1150.2207	175.2716	911.5016	211.5050
2846	75.4374	30.5121	14.1243	52.1977	19.3351
20716	75.3822	378.3571	100.2068	524.7839	182.3046
15394	75.3780	553.7957	69.7120	408.8436	132.6244
4222	75.3695	1256.3271	223.0748	1040.7164	182.1498
815	75.3143	3605.8193	630.9495	2933.6670	650.9019
133	75.2633	36.4379	32.6695	90.0948	73.0978
16367	75.2590	350.9457	216.4610	626.7133	286.5804
4206	75.2548	744.9400	177.9477	622.4682	159.3977
21657	75.2081	585.9650	129.0058	891.2511	407.0766
25363	75.2038	210.4621	77.7254	375.4242	181.0378
6626	75.1996	27.0557	13.0003	61.8342	31.0551
1178	75.1953	14.4186	26.9045	38.9765	24.1098
1170	75.1444	157.3507	49.8327	268.8495	129.7268
14882	75.0255	138.0564	152.5094	358.2852	235.1680
811	74.9703	68.6107	14.9260	93.5991	42.1456
706	74.9660	16.2907	5.7458	23.1521	9.9050
7604	86.9755	549.2236	109.5181	378.8346	114.5647
4926	85.7270	506.2864	42.7723	390.6002	76.2216
23224	83.5910	374.3971	33.5524	320.0869	108.0133
23299	83.1621	2281.5200	934.1672	1230.4574	553.6372



TABLE 5LL: Necrosis Steatosis			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21008	83.1153	3.8400	17.7273	93.5011	114.1667
24137	83.0389	77.2671	36.8582	26.8851	17.5579
13865	82.0409	96.7021	16.2867	137.3349	32.7043
7074	81.8031	43.8221	4.8258	52.8229	21.0370
13330	81.6248	21.8300	37.6547	73.0082	60.9451
735	81.5653	101.9457	51.6380	190.5994	71.0066
11221	81.3148	235.6500	99.0806	164.0485	38.3068
4107	81.2680	97.3386	58.4224	206.0995	85.7395
8167	81.2086	642.6550	107.5338	431.1963	172.0675
5821	81.0897	98.5257	12.9363	73.3566	25.8310
7071	81.0302	86.8386	33.7108	203.6941	111.9421
6321	80.9580	1437.0179	499.8233	857.4129	237.0613
4662	80.6650	30.9800	32.3600	-17.1501	32.7584
2231	80.6141	140.1493	19.6676	235.2950	113.3655
6464	80.4230	317.9164	105.1633	207.2934	58.6327
15561	80.3720	163.9121	80.3284	265.8809	76.1185
8110	80.3126	60.1279	29.1294	86.7072	26.4025
17559	80.2573	141.2007	76.5527	271.4127	119.6747
13717	80.2573	118.3014	20.5371	174.7959	49.1592
14458	80.2446	844.7686	360.1982	405.4593	231.6832
19032	80.0068	1530.0450	531.2493	1245.1574	275.3352
19835	79.8284	50.7007	40.2034	84.2399	21.6693
23608	79.7817	1430.6079	243.8615	1047.6552	367.6771
6635	79.7817	59.7057	28.9619	98.9063	38.2228
3963	79.7817	126.7693	72.9044	244.7866	98.2986
11228	79.7690	594.3386	191.0444	361.4018	141.5230
16781	79.7265	125.1371	20.9633	185.5312	100.8128
2536	79.7265	106.6993	23.1353	173.6004	77.0924
2993	79.7223	1188.2643	106.2663	968.0314	219.2296
13397	79.7223	123.8600	15.6373	152.0376	48.8268
19451	79.6034	53.1879	27.0584	156.9797	104.0292
21200	79.5864	101.8093	74.4300	30.0959	24.9640
17009	79.4887	26.5100	13.0034	67.2130	49.3429
5959	79.3061	23.9964	13.1137	39.8467	20.9686
18943	79.3019	871.6671	146.0986	633.8804	194.5551
17614	79.3019	76.6550	48.7615	162.2348	60.9819
18650	79.2424	2483.9336	431.3369	1804.4246	941.4566
18337	79.2339	89.7086	49.9143	58.4278	28.2491
12164	78.9918	153.6407	96.9205	53.6238	37.7007
9040	78.9536	276.7286	45.2519	375.4818	129.2932
2939	78.9536	56.1736	27.0153	103.3220	52.4868
14049	78.9409	132.7136	50.9267	193.5843	45.1123
21074	78.8772	791.4264	303.8549	582.2662	167.8771
22915	78.6479	334.2393	54.1492	269.9590	67.2086
4337	78.5884	33.8014	19.3256	53.2584	19.7758
21971	78.5799	472.1443	209.9305	337.7528	118.4374
5907	78.4653	478.5736	100.8673	343.9045	92.3833
9918	78.4568	219.1236	102.1367	147.1791	31.6163
23252	78.4101	14.4836	12.8353	36.5743	18.3404
6820	78.3506	162.8057	40.2982	226.7325	51.3825
13702	78.2996	13.5436	6.9363	28.4093	19.0896
18454	78.2869	213.1079	52.2993	151.5269	45.0605

TABLE 5LL: Necrosis Steatosis				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
4722	78.2869	64.4343	28.0676	34.8417	23.7041
21172	78.2869	219.9914	81.2019	286.6458	63.1852
6824	78.2359	2268.2814	215.9508	2122.2888	580.2950
11127	78.2359	46.4457	8.6426	68.0136	26.4075
17914	78.2190	356.5200	177.9903	139.3548	83.1964
6669	78.1765	97.4179	23.3259	142.7761	43.4676
2100	78.1765	446.3250	48.6002	394.8268	110.6236
17168	78.1680	685.4243	144.7330	482.8978	144.7772
22106	78.1595	212.2857	73.4527	133.5982	35.1993
15280	78.0576	92.0879	15.4512	120.7782	29.4080

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TABLE 5MM: Negative Controls			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1588	72.0192	700.1723	327.1804	412.6330	232.2981
1970	71.7140	317.4336	163.8809	183.3308	92.0966
5358	70.8818	146.2672	68.8164	85.4217	42.6874
20664	70.7094	919.6611	385.6522	588.6121	289.9668
23037	70.7046	41.4132	25.4593	22.7396	15.7872
445	70.5946	144.1969	73.7507	82.7641	39.9387
11260	70.4534	131.2696	67.0105	80.3999	52.0857
338	70.4173	26.8128	46.4904	-3.2941	33.2337
16602	70.3368	79.7489	47.4923	43.5814	33.9562
25491	70.0923	59.3552	25.8583	40.6522	18.5662
1969	70.0382	103.0510	76.6244	44.6752	37.1192
15123	69.9036	445.9574	378.8451	138.2921	199.1620
22661	69.8393	686.6783	174.0167	845.8637	162.6250
17562	69.6639	981.9633	494.9466	601.9823	338.2572
444	69.5359	119.7477	51.6946	75.2388	34.5437
11691	69.3406	97.4342	69.8516	47.0863	47.7230
7062	69.3340	678.8113	289.1407	446.6483	210.8374
25605	69.3340	49.0482	23.0321	33.1562	15.3231
1198	69.2980	230.3009	108.1482	146.6678	60.1223
8384	69.2799	133.4638	108.8685	52.7224	63.6315
25666	69.2715	297.7699	123.8606	189.0201	108.4282
1357	69.2601	64.3937	35.7978	39.5850	32.0069
17090	69.2451	141.1620	40.6309	110.0864	43.2448
446	69.2241	115.9174	53.5452	69.3727	34.3229
691	69.1994	253.3392	125.3368	160.7856	94.5799
18694	69.1682	52.2869	38.5101	20.5569	32.3570
20842	69.1057	434.3375	130.6649	530.4334	114.1818
15291	69.1027	210.0274	111.1492	121.0910	56.1285
1359	68.9909	124.0474	43.4722	86.0803	35.8946
25747	68.9170	2599.3565	819.1626	1952.2409	697.7238
18539	68.8317	277.0947	116.1440	180.8553	101.2148
1602	68.7776	360.6752	231.9046	202.7700	154.8374
26000	68.7710	106.0417	45.9246	67.6999	32.7440
17280	68.7644	54.5093	28.7895	33.3071	23.9295
8386	68.7170	372.6581	276.6053	163.3642	163.8884
17560	68.7037	1577.5364	658.8757	1109.8588	472.8835
1905	68.6479	1116.1489	425.0995	746.6038	351.2317
1323	68.5331	183.6707	161.9220	67.8422	119.5126
1589	68.4970	343.7262	243.3609	150.0170	155.5176
15470	68.4754	289.3183	94.5553	363.2355	90.0747
17204	68.4015	830.1091	260.2573	1051.4636	258.1818
21624	68.3769	3265.6684	797.8762	2619.7276	773.5407
25743	68.3607	285.8291	132.4984	176.9054	134.5639
4392	68.3144	3076.6233	991.3459	3928.9072	1097.3968
25405	68.3066	80.5659	45.8796	47.1951	34.4194
25254	68.3000	20.0008	14.7593	8.3585	12.2068
19212	68.2934	45.6356	22.3702	28.0473	19.0646
17561	68.2819	753.3032	390.2580	466.8154	262.5253
25203	68.2621	83.3872	35.7133	54.2746	30.7778
860	68.2014	30.9888	37.3480	5.0628	30.5953
690	68.1786	89.3896	51.1848	50.4340	38.1501
24518	68.1636	503.1269	155.8908	627.7239	140.3486

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TABLE 5MM: Negative Controls				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
9135	68.1636	834.1229	229.2764	1025.8800	209.0868
16469	68.1029	567.9515	207.9904	718.9486	181.6754
1538	68.0686	51.2477	42.5605	21.0976	28.0544
19584	68.0290	142.2739	43.7453	109.7579	43.3979
1704	68.0146	76.8139	79.3908	20.3441	36.8293
16248	67.8914	296.6191	220.4052	131.7359	125.1992
5317	67.8782	1034.1240	575.8959	641.3310	440.0832
455	67.8469	350.8188	164.7255	221.7124	136.5616
24867	67.8421	23.8259	24.4825	10.3614	13.9329
1029	67.8175	63.1238	36.6012	36.6180	28.1018
20942	67.8139	1070.6024	372.0032	1341.3559	371.2910
16122	67.7748	257.2677	170.4956	144.5708	134.8216
25774	67.7418	37.5755	14.8995	26.5620	14.0790
107	67.7057	48.6099	32.8655	31.5429	33.7987
595	67.6781	40.6585	33.2938	17.8861	20.1950
1324	67.6517	246.9592	155.0421	138.0418	120.6183
25498	67.6336	1167.7139	377.5257	897.8104	289.5853
8385	67.6288	200.1869	193.8442	60.6545	100.9654
8268	67.6222	770.7514	652.7394	328.1273	437.6551
17487	67.6090	118.2829	56.9709	72.2499	40.0397
16468	67.6072	392.0984	171.1802	538.9689	159.5771
25233	67.5958	106.9239	46.2984	70.4084	41.6746
6348	67.5826	107.6063	25.6021	86.2305	23.9068
18501	67.5663	260.8951	146.6785	166.3205	95.6014
25741	67.5549	54.2489	31.9825	33.2459	24.1203
15127	67.5417	1687.2792	594.9493	1189.7128	449.9288
17279	67.4810	31.0786	29.8442	8.7767	23.7823
13348	67.4762	61.4927	43.1010	31.8138	19.1288
6671	67.4498	154.5497	58.6586	109.2871	45.8246
19671	67.4366	33.3586	14.8462	22.6958	13.4190
16331	67.4317	507.4313	152.6846	414.8411	114.5641
1423	67.4269	57.2294	49.8707	18.6384	32.7724
15677	67.4119	416.1161	143.3043	301.8559	137.1014
4393	67.3362	1454.7974	427.1450	1766.2319	446.0295
4223	67.3332	26.6995	18.2720	15.7354	15.6172
20833	67.2821	757.6682	220.3785	954.1106	226.6227
4257	67.2791	37.9946	19.5550	22.8364	13.1962
4224	67.2707	379.0323	100.1701	311.2664	99.8314
1715	67.2479	736.6243	297.8945	534.8848	222.0980
18538	67.2052	137.0972	68.3642	82.9521	59.4567
762	67.1457	545.3490	316.8535	861.5952	388.1749
3254	67.1409	405.5852	125.2067	493.2032	123.4377
20270	67.1181	119.9073	40.8512	89.1837	38.1321
21415	67.1001	224.6154	129.6468	301.2975	108.5496
19391	67.0640	546.3534	212.4043	383.2988	194.2972
18517	67.0442	12.0599	33.1034	31.6403	30.5873
19934	67.0148	21.4517	11.4077	14.0448	9.5341
1703	67.0051	146.6583	83.9200	90.2165	45.1965
23123	72.4656	567.3654	203.6273	385.7111	140.2185
6916	70.9918	23.9360	36.7022	-4.5256	22.5220
21166	70.8998	530.0798	174.2102	378.4626	117.7436
21165	70.7899	96.7910	51.7130	48.9320	37.2751

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TABLE 5MM: Negative Controls				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3801	70.5880	135.2705	90.0342	62.3402	56.5697
4857	70.4961	432.7370	161.3085	315.2322	117.1048
20905	70.2924	669.0422	125.6625	553.1366	128.9441
16682	69.8856	187.7224	138.6072	84.5150	74.9155
23966	69.8231	1425.0503	465.2624	1043.2942	359.4651
23648	69.7065	96.4215	59.4314	48.6223	46.5149
16603	69.6393	200.9065	117.5932	111.8387	93.1396
16250	69.6164	663.5608	568.2097	227.0135	298.8362
12096	69.6032	171.4396	77.0649	115.5776	50.9465
17359	69.4043	2555.0124	915.8376	3421.1064	1020.5396
2425	69.2601	333.7374	98.9107	245.0317	73.1125
10512	69.2487	92.9364	64.1815	43.4753	49.7717
21183	69.2307	94.8686	87.5651	19.6783	56.7134
22536	69.2175	2021.7775	679.8734	1489.3497	498.2782
12203	69.2108	126.6889	105.1990	55.4980	90.7146
12413	69.1436	126.5232	51.0095	88.2707	43.6235
11719	69.1075	49.1879	25.8539	28.9682	20.2925
7497	69.1039	723.9603	198.2665	907.9666	224.0040
10065	69.0534	63.2661	41.4436	29.3961	22.9302
11693	69.0222	210.0040	175.2931	77.6781	131.9286
3798	68.9909	405.2292	139.8835	295.9397	129.0722
23038	68.9188	89.7648	135.7914	-15.4220	84.5182
2583	68.8972	1239.6842	564.2699	1699.3341	537.7434
14837	68.8762	238.7945	189.7019	94.8228	98.7406
12356	68.8563	101.7330	43.4444	67.5108	35.1861
5698	68.8071	1755.2828	347.2762	1460.7047	295.1276
7208	68.7824	462.3861	117.9233	367.9713	106.1929
4120	68.7170	136.2969	74.4209	72.6698	48.7599
14745	68.6923	58.4411	44.0337	27.0768	27.3862
1358	68.6677	94.2927	53.3833	52.7809	44.4291
2708	68.6611	533.2813	162.1809	407.9145	120.0697
20271	68.6118	458.0638	167.6026	336.7968	128.5470
14582	68.6052	99.6793	72.1583	55.1626	68.5206
17890	68.6004	64.7480	33.1459	40.5078	25.0759
22056	68.5181	1538.5664	467.7118	1964.3915	456.8412
17240	68.4982	2423.2748	755.1185	3083.7921	835.8118
21043	68.4904	129.4519	65.1127	79.3958	40.6243
16251	68.4790	301.8112	226.3305	131.3911	115.3099
1332	68.4724	717.0398	282.0905	472.8529	166.8469
11639	68.3739	53.6605	32.0890	26.6092	22.2659
8874	68.2705	192.3272	148.5437	85.5015	125.0438
23067	68.2669	594.8275	174.2484	694.8385	162.0993
11821	68.2459	461.1344	298.7934	248.2410	217.5429
22283	68.2195	441.4797	184.2639	302.9867	172.3775
12467	68.1948	86.1844	40.1733	58.5442	36.3061

TABLE 5NN: Peroxisome Prolif.			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18082	86.2579	44.5773	15.5649	19.7703	19.1852
15829	83.1578	243.8207	192.0725	24.7479	70.0758
17160	81.5696	1212.4548	112.8651	1302.8403	352.9742
427	81.5101	894.0591	202.1734	1723.9238	925.9238
17691	81.4464	84.2828	10.7396	104.1129	37.9378
3743	81.0769	92.8936	26.0431	52.9832	18.9158
426	80.5589	1462.6036	239.4410	2608.6883	1308.7895
20854	80.0195	74.0029	18.6699	77.3810	57.2440
24179	79.7817	22.2346	4.2705	16.0739	6.6862
8606	79.7223	30.3863	3.1392	38.1327	12.8463
3427	79.0003	282.5055	45.8121	197.7148	52.7929
1894	78.9451	76.4861	27.4887	43.2858	34.8070
7101	78.7116	2270.2657	501.9336	3384.7465	990.6960
18083	78.6946	171.1562	93.3377	42.9202	61.9832
20940	78.5927	1106.4821	151.3055	1143.5983	507.1657
1973	78.4738	186.0221	39.2390	265.1933	75.8850
2830	78.2996	140.3473	19.1905	176.5186	42.4623
14970	77.8198	32.4401	11.6418	59.4869	25.6153
11116	77.7051	556.4093	300.6821	1198.5089	784.1704
15011	77.4588	227.6250	50.1289	169.8316	60.5864
4002	77.4078	66.1343	19.9695	100.1764	37.5230
11115	77.4078	367.3098	186.4486	729.3327	426.1530
22865	77.2847	68.1444	8.0419	64.4614	23.6823
23211	77.2804	67.4802	7.7921	52.5810	16.8704
17225	76.8685	513.0661	60.3307	416.0054	127.6933
20766	76.8600	161.9414	40.9758	119.3250	41.4160
1131	76.5118	163.4415	15.3054	150.1790	43.2178
22513	76.4566	595.3514	309.3171	1775.0317	1907.9758
15313	76.4481	360.0410	63.6286	300.5834	170.7511
24868	76.3887	33.3062	11.0899	19.8432	14.1351
457	76.3334	340.2109	79.1718	509.0309	183.7460
25083	76.2145	22.1354	4.9296	28.8162	15.1099
3862	76.2103	44.2247	9.8789	36.0769	25.3985
20996	76.0956	298.5401	46.9204	250.1926	91.6008
16168	76.0786	4313.6831	1653.8148	2292.4695	970.9152
17258	75.9215	74.9320	12.3564	94.4594	30.4594
16806	75.9088	35.2704	12.4687	15.8009	19.7066
16141	75.7899	172.8531	23.2592	130.9408	32.1631
20518	75.6795	79.9956	17.6049	117.5184	40.0685
21403	75.6200	134.5834	11.7301	124.6232	30.5556
14595	75.5393	290.5388	183.2117	107.5601	94.9639
15886	75.5011	233.4456	19.2499	242.6179	56.3203
4354	75.4969	43.6042	7.6115	33.5283	12.6622
1678	75.4417	5.8723	16.7649	40.4734	42.2008
1949	75.4374	108.9981	32.6211	78.3078	38.1748
21589	75.4374	110.7866	21.3081	83.9200	27.4647
20126	75.3864	64.3703	19.1732	160.8076	168.8437
15248	75.3610	81.4823	59.8222	32.7996	22.9006
58	75.3227	89.2659	25.0930	125.4691	39.8828
20741	75.2633	37.9201	18.2840	70.4148	39.6750
1859	75.2633	28.2801	10.5134	44.9867	25.8389
17316	75.1232	107.5392	80.8764	34.2610	24.8334

TABLE 5NN: Peroxisome Prolif. Attorney Docket No. 44921-5113WO					
Timepoint(s): Various Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17161	75.0255	2386.6296	348.3855	2233.3626	741.7372
24651	75.0255	92.8724	7.9629	90.8517	23.3813
12013	74.9660	99.7602	12.5207	86.6886	22.9826
21443	74.9066	42.4943	27.5567	24.1537	39.2063
20919	74.9066	299.9556	114.8842	488.4804	186.9574
24428	74.7877	36.3631	5.8523	36.2079	17.9293
18583	74.6603	33.5783	11.6342	19.0311	13.4327
1129	74.6093	185.4774	29.6090	159.9542	54.5373
9183	74.6093	34.4197	9.2939	25.7168	17.2724
16759	74.4946	39.6276	9.2369	45.8266	24.7381
10744	74.4309	14.2900	11.1413	53.1068	48.4228
17532	74.4309	129.4729	40.3058	196.7185	73.4366
17934	74.4097	585.2562	287.0931	279.3999	124.8753
24508	74.3715	122.8081	24.7980	122.1201	51.7083
18055	74.3715	38.8280	5.2628	37.2065	13.0573
20057	74.3715	25.4351	10.1211	50.5631	39.4166
20583	74.3120	50.6381	14.1006	47.2220	29.2967
4225	74.3120	131.5003	18.3854	167.7601	60.3387
21211	74.2526	219.1737	72.4515	300.3574	103.6825
24377	74.2526	132.3789	16.8133	162.7667	44.4157
10517	74.2526	48.0038	5.1735	52.4509	16.3429
15545	74.2441	24.7379	9.2089	16.0894	11.0470
2629	74.2399	300.3459	124.3567	198.4732	120.2287
18490	74.1931	155.2598	24.6857	135.5154	33.1712
16085	74.1762	180.2121	67.2824	95.9216	49.7478
21657	74.1379	560.9604	164.9586	891.6673	406.5498
20951	74.1337	15.1066	11.1272	37.2115	25.1213
1105	74.0785	27.7314	13.5270	28.0817	30.2449
455	74.0785	139.8100	33.9161	240.2695	147.6721
8663	74.0190	-44.2808	15.2883	34.0349	159.0256
1712	73.8959	144.3361	22.2200	139.1354	50.5814
7266	73.8916	452.7692	67.3810	373.3571	114.4017
19696	73.7770	18.9611	4.8432	22.1058	10.4668
7914	73.7175	44.7176	18.0842	75.4719	35.3386
3254	73.7175	519.7501	64.5899	481.0928	127.7937
9254	73.7175	80.7448	15.5041	104.5317	30.3013
21011	73.7175	3290.0082	589.8038	4556.3964	1710.1817
9073	73.7175	33.3095	5.3631	39.1851	18.4820
19486	73.7175	42.5449	5.1592	42.9853	13.6772
561	73.6581	121.1746	21.3529	144.4137	41.1660
17123	73.5986	319.6412	29.9245	302.0121	69.4160
18395	73.5986	151.8395	17.2008	169.0055	46.6869
8277	73.5392	190.3479	21.8408	167.3931	39.0009
11455	73.4755	154.3256	30.8823	125.4701	69.3438
21090	73.4202	70.6546	30.7575	109.5320	49.2733
18050	73.4202	62.4132	8.1159	61.3400	28.7652
15035	73.4160	86.6509	27.4557	66.9224	39.0475
18667	73.3650	35.8000	6.7329	39.2679	18.9981
2331	92.3858	1517.1174	786.7751	271.3670	322.5522
23541	87.2134	383.8332	50.0560	278.5867	187.3603
16169	86.2579	5341.4124	1639.2310	2742.0200	1348.3255
21593	86.2026	406.2272	75.5527	243.9546	93.2026

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TABLE 5NN: Peroxisome Prolif. Timepoint(s): Various				Attorney Docket No. 44921-5113WO Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3597	84.0029	36.9789	19.4002	9.2053	23.1754
14763	83.9349	1602.4111	719.6398	536.3378	543.0679
6347	83.6462	284.8249	44.9198	211.9513	55.0996
6198	82.5803	91.6780	14.7108	124.2920	54.8248
19718	81.9263	46.6930	4.3836	37.9819	26.1709
18826	81.6757	3492.4854	1340.9523	1802.1180	893.2655
2501	81.3275	166.4521	14.2693	148.2138	50.0027
17668	81.2128	99.4798	30.1154	97.3989	102.0160
12223	81.0302	474.5644	76.3302	355.3771	97.9129
8759	80.9580	295.0525	172.0974	93.8107	142.6451
22793	80.7372	171.9039	38.2751	114.3082	70.9383
22688	80.6141	70.3886	38.2797	190.6117	109.2493
12863	80.1427	32.3991	6.0598	51.0893	24.6062
14902	79.9601	121.1314	24.8770	168.9708	39.9535
11028	79.9049	29.0030	9.9210	55.6180	30.9338
22885	79.8964	1326.8246	538.5187	2211.8571	683.0980
10724	79.7265	22.6085	5.8976	39.0323	24.5835
11270	79.6586	108.4228	16.0731	73.7778	54.6678
2655	79.6034	1288.9743	262.7846	942.0609	472.0516
14911	79.5354	251.6394	88.7633	146.7471	77.6922
10923	79.4293	20.8113	4.4594	26.9056	18.7606
5198	79.3656	320.2161	78.3966	250.0550	164.5816
22268	78.9494	23.2384	20.1898	57.9323	39.9111
2825	78.9494	205.8289	23.6668	166.9881	51.4256
6268	78.7158	156.5834	21.5621	152.2829	55.4817
23099	78.7116	283.3297	33.5517	253.8040	112.5789
15655	78.6521	32.5396	6.9911	20.4413	22.9366
19063	78.5332	199.4999	14.3447	200.4805	55.8799
4877	78.4185	157.8528	44.3489	285.8035	154.5576
8314	78.3464	1874.4062	811.7529	1181.4276	675.6475
14743	78.2402	29.9267	6.4082	29.9233	28.3392
16128	78.0533	353.5840	55.5609	286.2976	64.9407
17861	77.9259	86.9809	30.1695	53.6356	23.8978
4004	77.8835	237.0301	82.7260	371.9543	169.7009
6799	77.7603	136.3316	26.9484	102.6565	42.6740
11729	77.7561	281.0616	45.1604	225.9030	52.8233
13977	77.6329	420.9243	230.5922	478.2180	153.3476
11901	77.5820	624.8398	84.0775	472.2110	173.0209
23124	77.5777	82.0552	23.5805	121.1877	34.8553
8917	77.5055	164.7281	77.9283	52.2599	41.4488
14717	77.4631	530.9520	49.7675	634.7687	122.7478
21661	77.4078	613.5280	142.8058	1091.8751	590.0762
15981	77.3484	55.2763	8.4631	56.2611	25.4138
23553	77.2252	48.5883	13.5610	47.8383	40.3191
7806	77.2210	167.9940	48.4181	128.4024	52.7160
7741	77.1658	104.6897	11.5086	122.8710	47.4839
23043	77.1063	295.7834	37.2768	278.1222	83.7112
22233	77.0936	729.6806	162.2083	566.1615	122.1263
3991	77.0511	33.1801	7.3239	28.4545	27.9650
10665	77.0341	243.9692	81.2514	156.0302	65.5081
22065	76.9322	919.4732	177.5527	1175.1615	329.6012
14187	76.8685	103.2077	17.2902	117.2611	66.3551



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TABLE 5NN: Peroxisome Prolif.			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6039	76.7496	890.4421	84.8289	898.7258	231.0628
14923	76.6902	462.3856	105.1810	345.9852	206.6330
3557	76.6902	118.6593	11.4322	113.4772	35.3645
8590	76.6307	517.1463	118.0956	375.3916	201.0728
15308	76.6265	81.0025	46.8768	142.6579	55.6353
20857	76.3929	39.4898	18.0327	68.4858	30.5139
9575	76.3334	827.3069	65.9879	782.3294	190.4231
20901	76.3334	118.0553	14.1417	137.6982	34.3281
15016	76.2740	1128.0619	163.2019	964.1729	310.8262
18696	76.2103	176.9453	29.0944	236.3701	59.0067
23447	76.1593	60.3744	10.7296	61.0540	26.6462

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TABLE 500: PHENOBARBITAL					
Timepoint(s): 24 hrs			Attorney Docket No. 44921-5113WO		
			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18702	100.0000	225.1067	3.7274	71.9180	29.2478
17598	100.0000	91.0233	3.0182	-12.8744	38.1015
19675	99.9413	95.6800	15.1661	13.3462	15.2759
1783	99.8239	44.7600	6.7168	-17.3986	13.6213
16514	99.7653	514.9400	5.5043	335.4483	71.4689
25567	99.7653	1287.9133	30.9060	426.5708	176.2910
20389	99.7653	34.6533	0.8376	10.1304	8.2366
3430	99.7066	1332.5833	41.4309	499.3650	178.5283
15857	99.7066	273.4300	1.2646	171.4739	45.3854
16610	99.7066	907.1133	30.1060	435.2142	143.1046
16157	99.7066	57.3067	1.2838	26.2247	9.8195
17052	99.6479	202.2267	10.0315	92.9090	27.0155
16327	99.5305	72.6400	1.2347	170.7202	53.0745
12363	99.4718	125.4300	0.3780	184.5832	39.5870
25260	99.4718	209.3300	17.5413	63.9036	27.7891
17367	99.4131	40.8367	1.1836	19.8781	7.9150
21576	99.4131	250.5167	13.2052	132.7633	32.1223
1580	99.4131	96.9433	3.0954	42.3922	23.8352
17088	99.3545	955.5467	45.1289	350.0885	132.5608
20443	99.3545	235.3500	6.2496	136.0867	37.7856
25071	99.3545	2086.2567	356.2937	412.2394	242.6002
812	99.3545	22.5667	0.4754	54.7419	23.8784
16809	99.2958	114.4967	2.2106	63.4169	26.0209
17597	99.2958	177.4233	5.5743	76.5205	27.0915
798	99.2371	157.6533	11.0023	52.2778	21.7573
18061	99.2371	353.5400	24.5809	178.3846	43.2060
20984	99.2371	59.2433	0.7497	149.8320	147.8305
16346	99.1784	330.6167	8.8804	160.5343	65.6205
20980	99.1784	204.1300	10.4729	105.9528	27.2506
1785	99.1784	111.2467	2.9776	55.9623	21.7677
17508	99.1784	124.5033	8.3205	55.7001	19.2845
1586	99.1197	181.0100	2.8987	111.0348	29.8706
1734	99.1197	32.8567	0.7650	76.0878	35.4319
4407	99.0610	512.9367	32.7299	174.3866	92.2597
797	99.0610	241.6533	35.3009	83.3036	31.7171
18726	99.0610	47.1567	5.9271	194.7340	85.1875
5048	99.0023	99.9367	1.1754	63.0890	18.7245
1309	99.0023	127.4133	6.7823	56.1040	22.4340
19148	99.0023	289.5333	7.5634	183.0517	43.4568
1126	99.0023	89.0400	1.5156	50.1240	18.7593
14213	99.0023	64.0567	7.6038	2.3430	26.0389
23926	99.0023	81.4733	19.3964	8.5752	60.4103
4832	98.9437	88.1533	0.7286	50.4232	20.1291
20150	98.9437	28.4100	1.2771	9.0343	8.3965
25907	98.9437	174.0167	3.9305	79.7012	49.5565
1045	98.8850	192.4533	9.5062	84.2679	26.5960
17171	98.8850	1313.2333	198.8186	384.5224	174.0695
17382	98.8850	445.4133	6.0995	274.8817	103.9189
15475	98.8850	51.1200	7.4177	14.4313	8.9215
20702	98.8263	148.1367	7.9878	50.6424	29.1397
24033	98.8263	141.9967	7.6980	67.8542	22.7707
18069	98.8263	144.5367	27.2606	27.6259	24.0591

TABLE 500: PHENOBARBITAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17661	98.8263	526.8367	21.1796	308.9286	82.7410
570	98.8263	509.8867	25.3921	258.2416	80.3078
24228	98.8263	280.3067	3.5241	453.1020	127.3325
19823	98.7676	47.8833	0.6161	24.8010	13.3966
11423	98.7676	73.1867	1.2832	37.4252	16.2489
18468	98.7676	173.9267	10.7717	66.9599	47.5391
11296	98.7676	167.9967	2.7717	114.4154	38.9384
11358	98.7089	108.7933	8.1836	36.7604	25.5974
11317	98.7089	28.5967	4.5008	0.9232	9.5796
20801	98.7089	521.9133	23.7858	223.1453	102.8546
23869	98.7089	12.4733	1.2947	168.6124	165.5488
16871	98.7089	63.0767	4.7420	23.0774	13.1847
815	98.7089	3100.5633	9.4215	2944.1241	656.8888
20161	98.7089	29.8733	0.3691	75.6303	55.5762
1448	98.6502	1693.4067	15.9351	1256.4641	214.8845
11494	98.6502	788.2800	156.3945	168.3581	140.5692
21696	98.6502	635.0933	37.2765	366.5898	90.9816
13092	98.6502	379.5700	18.2319	215.7547	56.3006
23868	98.5915	51.3467	12.0481	579.0532	534.4164
21586	98.5915	348.2300	31.6686	135.7485	57.8534
21703	98.5915	174.9200	10.7058	102.6012	23.4396
16413	98.5915	20.9900	10.4467	-53.2136	48.9713
114	98.5329	60.8067	3.6967	17.5627	13.8269
25204	98.5329	25.6900	1.3406	106.5336	56.2727
7864	98.5329	1682.8400	11.4389	1387.8805	212.9802
1305	98.5329	33.8633	0.4200	22.3541	21.0166
3203	98.4742	1078.9733	61.7950	639.8670	144.1360
16180	98.4742	33.7900	1.4730	94.9956	43.1011
20772	98.4742	186.0733	4.9311	115.8452	32.4829
18179	98.4742	21.5367	5.0517	-1.9587	8.4773
20744	98.4155	108.9400	2.4582	73.6237	48.1305
15683	98.2981	223.5633	33.7453	78.3100	39.1447
11493	98.2981	234.7467	71.5950	33.2412	52.2384
1579	98.2981	64.4400	9.9870	23.8259	14.5340
19744	98.2981	33.7300	4.1947	1.3672	14.2749
24628	98.2981	162.9133	2.1658	239.2929	51.7801
19712	98.2394	13.4000	0.2869	28.4824	16.9197
4256	98.2394	76.3467	13.0668	8.4451	21.6276
17858	98.2394	128.4300	2.9951	190.8795	37.4062
9254	98.2394	50.7600	3.3793	104.3302	30.1499
626	98.2394	239.8733	20.0350	89.1319	74.8411
15579	98.1808	14.6967	6.9182	598.3967	504.9746
18098	98.1221	68.8133	1.7033	41.9745	13.3971
23070	98.1221	348.9900	6.7083	239.5144	58.2984
13543	98.0634	537.6033	48.6319	320.7175	70.4617
2801	98.0634	237.4333	12.0570	109.6303	62.2035
1569	98.0634	88.2967	13.4739	-7.9747	46.5420
16450	98.0634	237.0033	5.7402	151.6017	64.0950
23023	99.9413	14.1733	0.0252	41.2746	18.2511
22372	99.9413	993.4900	7.6368	305.5506	125.6298
21822	99.8826	1342.1733	34.2174	654.3701	186.2635
4983	99.8826	504.4033	18.0930	144.1978	102.2454

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TABLE 500: PHENOBARBITAL				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21208	99.8239	97.8700	6.8379	-1.0994	23.1240
3558	99.7653	412.6500	5.2562	192.9978	62.2566
5876	99.7066	442.8967	0.5408	599.4852	244.0400
4119	99.7066	219.9967	0.2335	178.3105	65.2194
13879	99.6479	206.8767	15.4656	66.2265	26.8840
7596	99.6479	348.9867	11.1955	162.0247	57.0973
18466	99.5892	402.3733	26.5128	108.8541	58.4569
2340	99.5892	228.6400	7.1754	-69.7332	153.7308
5615	99.5892	300.2033	19.2736	70.6303	34.7182
21883	99.5892	374.9367	39.1587	72.4107	45.7184
9492	99.5305	137.2733	1.8119	83.0409	24.2309
21853	99.5305	20.6300	3.7165	-59.8947	40.5864
17820	99.5305	172.8867	4.1793	77.3554	33.1217
18254	99.4718	51.8533	4.5093	2.2803	22.4468
7583	99.4718	60.6500	0.5274	50.0166	63.6190
7793	99.4718	125.7233	10.7996	295.8028	86.6279
22075	99.4131	337.8367	3.8951	195.9980	58.2888
21968	99.4131	1226.9400	149.9360	274.2234	192.0222
4931	99.4131	194.2867	18.6601	35.7153	57.3142
12342	99.3545	306.7800	7.0936	137.2887	61.3538
19041	99.3545	388.5200	5.9537	213.4117	60.0690
19827	99.3545	380.0000	15.2840	1015.1311	600.5093
17768	99.3545	938.4000	41.3457	600.8241	151.2120
7043	99.3545	308.8833	26.9154	113.0749	43.0522
7307	99.2958	159.5167	7.9203	70.0674	28.7267
14596	99.2958	76.2133	5.3665	24.9157	14.2900
15399	99.2958	400.4167	42.1624	185.0000	47.2645
10106	99.2958	46.2067	0.4310	85.2417	31.3500
3827	99.2958	369.6167	21.6183	121.9604	85.9681
11180	99.2371	328.4467	14.9447	122.8410	71.2747
3246	99.2371	257.1167	9.7966	103.3158	56.0603
16580	99.1784	582.8233	20.5297	276.1437	96.5156
15029	99.1784	38.4033	3.3194	164.6743	73.6902
7912	99.1784	145.8033	12.3336	58.3178	27.1062
23034	99.1784	174.5867	6.3180	71.5438	37.0341
18535	99.1197	725.2300	95.8109	233.2779	95.8979
15582	99.1197	14.3833	10.3308	1664.0208	1548.2096
23435	99.1197	346.5833	12.5881	138.7576	100.2538
10110	99.1197	60.4267	1.0808	129.8492	54.3359
19480	99.1197	143.6467	5.3176	300.4449	89.4172
13006	99.0610	112.0700	10.2911	-8.2870	45.5605
18777	99.0610	181.9600	8.8978	42.6582	54.3040
21667	99.0610	53.8467	0.4225	33.1529	20.2649
7104	99.0610	242.6367	18.9004	509.9274	149.8265
20577	99.0023	174.2167	1.6384	70.5272	83.3347
12011	99.0023	110.1933	14.6591	357.0211	92.0900
17335	99.0023	198.3733	3.6147	119.5997	36.2285
16027	99.0023	331.2667	9.7572	183.5997	55.9349
22558	99.0023	103.3600	8.2293	548.3316	312.5418
8018	99.0023	343.6067	57.1963	139.7496	40.1245
19418	98.9437	134.6567	0.4405	136.8561	57.4271
13617	98.9437	142.4433	2.5936	73.0426	41.1995

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TABLE 500: PHENOBARBITAL Attorney Docket No. 44921-5113WO					
Timepoint(s): 24 hrs Document No. 1926271.2					
GLGC ID.NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6226	98.9437	103.3233	35.7003	4.0885	9.3021
23659	98.9437	384.4200	33.7842	126.7757	71.6257

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TABLE 5PP: PHENOBARBITAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
4407	96.3486	395.4550	65.8401	174.0206	92.6202
23192	95.5241	452.7150	27.2763	284.0135	84.8301
14295	94.1107	67.9450	13.6080	33.6149	16.6182
21120	93.8163	357.0317	24.8250	238.1310	77.5156
7170	93.4040	105.2833	17.1796	66.3770	19.0398
24881	92.6384	24.7217	1.2115	40.6897	21.2339
797	92.0495	126.1317	14.9440	83.5605	32.9669
16241	91.9906	11.4067	2.6291	22.8817	8.0129
18442	91.9317	77.0600	16.0677	48.9086	18.8366
19443	91.9317	576.5300	55.9964	384.4212	132.0746
15703	91.7550	57.7917	9.6831	27.3159	16.5182
21663	91.6372	612.7783	31.4937	440.3137	126.2564
24582	91.5783	126.2317	22.4264	74.0888	30.1453
866	91.5783	80.9333	13.1873	153.8389	51.5512
21951	91.4605	219.4817	29.8799	139.3694	49.4604
25531	91.3428	25.5017	1.1561	22.0592	10.7837
20456	91.2839	238.0700	39.0056	138.1216	62.0538
3430	90.5771	709.2600	101.9248	500.8258	184.5809
24377	90.4005	110.0900	9.3035	162.6379	44.1991
798	90.2238	75.8767	9.7197	52.4834	22.5850
17636	89.9882	21.9967	3.5497	27.2343	28.7822
1058	89.8704	273.4933	57.8084	180.3505	114.2739
15023	89.6938	267.7933	16.5718	360.9634	83.6008
1569	89.6349	53.2400	22.1360	-8.0671	46.6651
11975	89.5760	31.9550	9.2013	7.5501	18.9452
14213	89.3993	32.0567	6.7178	2.3511	26.2206
14066	89.3404	68.7383	5.9962	100.2889	28.4272
1053	89.3404	38.2883	3.3043	57.2265	37.3100
1678	89.2815	31.3883	4.5857	39.9670	42.2754
1586	89.1637	149.0250	11.9358	111.0136	30.0283
15009	89.1048	6.4367	2.8005	24.4854	14.5933
17657	88.6926	51.1683	8.7016	24.9940	26.1930
19768	88.6337	762.5917	29.3263	680.7383	183.5494
19222	88.6337	1016.4983	47.6021	863.6054	183.3232
17590	88.6337	254.8667	8.0494	222.5550	41.8596
16684	88.5748	1342.9233	89.6150	1065.5421	221.0828
21842	88.5159	667.5100	126.1341	479.7396	262.4281
22927	88.5159	57.6800	3.9710	50.0739	20.7307
1578	88.5159	24.7600	2.0148	23.4925	14.2561
21864	88.4570	137.8450	23.1646	87.8379	34.3728
12348	88.2803	303.1633	20.7447	258.8029	67.1868
1558	88.2214	86.4283	6.5077	71.6577	35.8701
1302	88.1625	199.2817	46.4679	113.0512	175.0560
25700	88.0448	46.7183	7.1409	91.4354	49.8908
1764	87.9859	247.9150	37.0435	171.1781	53.8641
14300	87.9270	8.5217	4.1702	30.1439	17.6914
23044	87.9270	82.1050	8.5017	121.8644	36.5958
8427	87.8681	101.9817	11.5440	72.6342	36.4304
22813	87.8681	64.8033	7.2348	49.8179	32.4204
2078	87.8681	180.2883	16.6676	240.9317	62.6361
4474	87.7503	131.4750	19.1233	85.5978	36.9258
18572	87.7503	502.0983	24.3683	618.2184	126.7957

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TABLE 5PP: PHENOBARBITAL					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6128	87.6914	47.1933	3.0485	41.0922	15.6509
6127	87.6325	29.2217	3.0300	19.2731	11.0980
322	87.5736	315.2583	101.7477	167.6254	179.5607
17908	87.5147	631.4850	99.8304	448.8885	272.2225
21623	87.5147	1849.5617	285.7510	2640.6595	526.6026
25934	87.5147	108.3600	11.2170	78.2071	30.6302
17473	87.4558	726.6917	65.3995	549.8209	163.0577
24344	87.4558	24.3100	3.0090	15.0805	16.2966
18561	87.3969	103.7367	14.6907	71.0113	25.3026
17316	87.3675	92.9033	41.9868	35.0549	27.6487
24897	87.3380	33.2817	5.0574	51.1797	16.0051
26032	87.3380	549.2150	41.8194	500.2287	440.0381
17203	87.2203	849.8833	50.7371	700.0617	198.7016
25758	87.1025	8.8067	6.3127	25.0490	12.2567
15247	87.1025	28.2567	10.0770	87.8161	67.6582
317	87.1025	28.7867	2.6384	36.8688	21.1191
1894	87.0436	33.2667	5.5639	43.9040	35.0514
8426	86.9847	165.3650	18.4056	118.2176	49.8346
713	86.9258	61.6683	17.7126	29.5460	47.2611
25120	86.9258	16.2367	1.3500	20.0574	9.9894
17727	86.9258	69.8133	5.4972	60.8142	22.4131
20740	86.8669	1095.0650	159.1367	819.4514	345.4374
17920	86.8669	33.0983	8.3065	61.4228	23.5103
13160	86.8080	63.0217	12.0218	91.0576	22.2981
23220	86.8080	91.2283	6.6678	71.7726	21.5988
8107	86.7491	35.0667	4.2768	53.0259	18.8437
6967	86.7491	356.6400	11.2272	360.8622	75.1059
24423	86.7491	60.1067	6.0386	59.7485	32.6172
24735	86.6902	29.3517	1.7515	37.2044	13.5864
17480	86.6902	29.8967	4.1483	48.3796	34.2764
25639	86.6902	21.1433	6.6639	-5.3925	22.1412
25793	86.5724	15.7550	7.2352	38.1074	18.3617
24427	86.5724	83.1600	7.6888	116.6971	36.2771
11239	86.5724	45.2917	4.9620	66.2497	21.0172
9842	86.4547	778.1100	111.6739	526.1685	210.3246
11358	86.4547	50.4650	6.7320	36.9180	25.9699
4524	86.4547	93.2867	10.2085	71.2375	30.9195
19649	86.3958	30.0233	3.3875	42.4531	14.7812
20753	86.3958	485.7467	38.7951	362.5901	118.8008
23563	86.3369	28.9983	6.3737	7.7635	28.0337
1131	86.2780	197.2400	20.6792	150.0651	42.8772
15629	86.2780	38.1633	5.8804	64.7312	28.4091
20702	86.2191	66.7083	9.2157	50.8733	29.7241
436	86.1013	109.2083	14.3536	78.3475	24.2797
18898	86.1013	73.9867	4.6392	67.6641	20.0070
26012	85.9835	4.6750	3.6080	20.3717	14.7448
1640	85.9835	30.7583	4.5124	34.6732	23.2584
18494	85.9246	131.1500	11.2742	128.8468	49.4198
21409	95.7597	266.3033	15.8457	153.1239	68.3114
6044	94.8174	783.5067	15.8705	622.4593	135.5204
8053	94.6996	415.5983	44.1993	210.8615	118.2898
13401	94.5819	47.1967	3.0137	25.5906	16.3073

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TABLE 5PP: PHENOBARBITAL				Attorney Docket No. 44921-5113WO	
Timepoint(s): 3, 6 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14375	94.4641	165.0800	29.6997	86.9849	32.3799
18406	94.3463	98.8733	10.2641	49.0038	27.7333
17210	94.0518	210.9617	14.6953	138.0324	44.7156
11870	93.9340	487.7750	25.9381	946.9646	818.1707
17540	93.9340	1961.1733	200.8557	1146.0335	425.7501
7171	93.8751	368.1850	28.1205	237.7318	68.3220
11596	93.8163	60.6533	3.0436	103.0055	46.6734
19271	93.8163	419.4033	35.4474	279.2055	96.6563
21390	93.7574	380.8233	90.3442	193.7824	82.0631
3477	93.7574	118.7317	18.0895	57.9498	74.3034
5999	93.6985	91.8767	6.6790	201.5907	112.9905
8081	93.5807	79.6667	7.1812	131.0524	44.1763
7434	93.5218	548.3750	42.6663	335.0612	120.9031
23944	93.4040	677.8500	45.4018	499.1061	134.3490
24604	93.4040	121.4433	15.1830	79.7727	73.0805
23034	93.4040	132.6850	13.8055	71.4759	37.2351
8048	93.2862	134.1633	12.5851	73.6077	36.0260
16609	93.0506	225.9067	11.7104	330.2502	93.5395
16409	92.7562	89.9900	19.6646	1.6079	59.8891
23542	92.7562	356.8367	26.1540	223.7336	82.4482
19384	92.5795	1717.6500	92.0712	2635.8927	876.8582
17767	92.5795	240.5950	38.6143	157.7913	49.6677
21510	92.5795	976.6817	103.4538	629.9400	224.2569
22729	92.4617	154.1833	27.1141	82.6701	34.0447
16490	92.4617	559.4117	20.8678	407.4154	123.2992
17358	92.4028	353.0283	17.8645	493.6994	215.3840
8595	92.3439	321.0183	32.7308	215.2353	66.4038
19035	92.2850	180.7533	33.6881	330.4614	93.6456
14560	92.2850	149.9917	15.6263	100.3550	40.6198
15235	92.2261	179.7467	17.0594	303.4877	91.2074
18272	92.1673	31.8250	5.6630	68.1814	27.6820
22318	92.1673	701.7683	157.6327	420.6326	161.2750
8265	92.1084	108.1167	4.0059	128.0502	42.8567
22724	91.9317	138.8683	8.5931	94.2878	39.6872
13052	91.8728	475.8100	24.2593	359.1517	86.4540
7994	91.8139	20.1067	6.2453	-6.0040	18.5132
4401	91.6372	32.9267	2.0981	44.3692	17.2749
10929	91.5194	97.3767	19.6590	195.5547	72.1059
17793	91.5194	179.4267	12.1777	120.4858	55.2052
5794	91.4605	236.0783	18.8342	174.2573	40.8347
2937	91.4605	444.0167	12.0505	527.4182	111.2821
16872	91.4016	45.5700	6.4159	78.8023	27.7696
22446	91.4016	229.4483	20.7101	108.1015	110.3666
19205	91.3428	136.6883	19.1017	87.6963	48.8843
18684	91.3428	177.2633	32.2297	107.4661	40.4394
11228	91.2250	429.6483	17.2201	364.7606	145.7708
1600	91.1072	558.0083	113.5306	340.9151	380.8938
9421	91.1072	85.1267	11.7750	141.1911	40.1432
8372	91.1072	71.4917	7.9482	124.9891	46.7788
21275	91.1072	1327.7767	184.0489	825.3051	295.8464
21334	91.1072	305.7933	22.0480	216.7477	97.3321
23637	91.1072	277.9967	19.4140	177.7147	88.1503



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TABLE 5PP: PHENOBARBITAL			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15873	91.0483	28.2883	11.1767	95.6395	50.8733
4641	91.0483	223.7517	13.8053	176.8867	50.2984
18477	90.9894	89.6033	12.9067	220.1180	126.1461
9440	90.9305	297.9000	39.0511	204.4944	65.6249
2702	90.8127	1027.5433	75.5086	819.9480	298.9307
8305	90.7538	333.4617	51.0712	183.3841	93.5300
21870	90.6949	89.4400	9.9167	145.8173	48.7595
5972	90.6949	45.4400	4.5323	79.1719	32.6681
14941	90.6360	27.3400	6.9771	8.4593	15.7624
3267	90.6360	32.9633	2.8279	36.1784	36.6816
3290	90.5771	476.7483	68.1174	315.5338	111.4818
11160	90.5183	68.9017	5.1714	101.9135	50.3872
22833	90.5183	2150.8917	100.5147	1776.1048	422.3499
22770	90.4594	1300.1667	127.4369	831.1107	321.4702
6165	90.4594	484.4900	49.1710	319.8969	132.6826
22677	90.4594	704.8650	57.6898	447.9869	189.5528
23177	90.4005	164.1050	11.4120	110.1478	58.8722
6440	90.3416	860.7933	57.5109	628.9122	168.6959
18756	90.3416	177.0800	17.4634	144.8825	93.7277
3586	90.2827	122.2133	23.4818	47.5822	53.4129
2930	90.2238	33.2383	6.6525	68.7859	27.9258
2781	90.1649	238.2250	41.4258	139.3239	94.3658
19427	90.1649	2858.8950	244.7747	4712.5229	1632.1355
19187	90.1649	666.6067	120.5731	423.4085	153.4523

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TABLE 5QQ: STEATOSIS			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12155	89.7754	-30.8741	17.6114	84.5637	168.6316
2853	89.1844	356.1531	59.5981	243.1721	88.6332
14002	89.1844	164.0276	33.2423	325.8097	116.2489
5497	88.8298	163.8578	209.6461	212.3724	134.3593
15794	88.7707	42.5068	9.8700	22.4105	17.5811
14495	88.7116	113.3602	159.0365	142.6600	74.8767
20939	88.4161	874.0879	116.3979	543.6799	178.9772
15025	88.1206	4.5673	5.5214	76.5886	140.2811
13646	88.0024	1902.0956	101.4132	1616.7109	287.6258
15028	87.4113	255.2997	264.6793	336.5637	148.3257
16947	87.2931	244.0790	304.0594	346.7074	136.9965
20430	87.1158	36.6321	25.2443	210.7372	180.3685
4723	86.9976	387.3069	306.3019	519.4579	167.6198
9917	86.8794	71.2038	4.7286	59.1666	15.7476
17091	86.8203	69.7136	30.9932	143.0598	62.3560
25725	86.7612	16.9488	22.0425	93.1753	57.1054
21657	86.7021	540.7094	53.0180	889.9282	406.4404
17146	86.6430	211.0584	291.9780	311.2461	162.0846
14346	86.5839	219.3271	172.0336	731.7349	317.5485
16780	86.5839	68.6151	21.4168	175.7070	96.2355
20193	86.4066	21.3317	14.6574	4.3323	9.1103
19825	86.4066	35.0479	82.5149	73.0194	55.1272
7864	86.1111	1758.8559	225.2740	1384.9799	209.8504
20836	85.9338	77.8298	18.4083	28.7636	28.7781
16948	85.7565	167.8014	345.0438	293.0995	192.1965
17693	85.6974	48.7537	25.9991	159.4326	85.4850
1630	85.6383	119.1427	63.2096	34.3397	23.0631
15024	85.6383	2.6570	10.5102	82.3658	160.7928
1557	85.5792	59.9853	38.2129	16.2220	13.3840
4594	85.5201	672.7701	429.2416	173.3318	221.7632
20493	85.5201	72.8118	74.6503	109.3355	46.3818
3422	85.4610	36.2244	9.4934	17.2007	14.9509
17626	85.4019	1000.5265	276.8126	603.5389	152.6175
24326	85.4019	1229.8021	252.9136	823.9043	253.2392
20149	85.3428	-32.0366	9.1485	46.1890	208.2264
17393	85.3428	667.5976	108.5595	480.5765	119.3324
7176	85.2246	638.7340	316.1162	302.5503	127.1608
23806	85.2246	224.5569	189.5362	339.8794	115.9459
14003	85.2246	164.0702	42.1760	339.7797	115.1853
18911	85.1655	45.8232	7.5894	26.7880	13.2845
2384	85.1064	138.0603	247.0845	287.7761	164.5921
4500	84.9291	93.8112	36.0318	33.8145	24.9951
18553	84.9291	343.9678	146.6804	114.6895	92.5777
354	84.9291	1261.4244	632.9731	505.2324	308.9319
19943	84.7518	112.9447	16.5831	169.0652	86.1446
18468	84.7518	122.5208	22.4323	66.7482	47.7412
353	84.6927	1083.1582	533.9235	405.8552	233.8745
20026	84.6927	99.6284	13.5086	76.6497	33.5021
25379	84.5745	210.4127	94.7476	84.2156	64.2507
16139	84.5154	99.3353	38.9195	60.2566	20.2241
22411	84.4563	112.0474	56.4223	36.7617	43.7017
4524	84.3381	144.1262	59.5190	70.6185	29.5461

TABLE 5QQ: STEATOSIS				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18989	84.3381	473.1457	346.4281	1452.4046	693.0425
1379	84.2790	99.4790	39.3706	45.8039	22.2623
14250	84.2199	176.9473	85.0308	64.5130	71.1455
21053	84.2199	436.9409	90.5088	818.3116	359.4382
21098	84.1608	411.8118	208.3279	1022.2973	627.7139
25550	84.1017	217.9914	67.5841	124.5818	45.3745
19101	84.1017	185.2970	52.2191	117.4166	51.0687
20515	84.1017	148.7723	26.5604	109.1364	28.0982
1306	84.0426	268.5656	100.9200	150.8599	56.9467
1495	84.0426	232.8632	79.4093	133.9129	43.7255
17739	84.0426	9.8816	4.7902	43.7989	41.5571
19181	84.0426	126.1987	14.1745	91.7050	22.7396
3174	83.9835	20.5408	16.2459	1.1157	10.3003
5496	83.8652	139.1512	150.5818	164.5683	96.9247
3636	83.8652	169.1108	102.1899	223.2729	68.7393
20982	83.8061	165.3276	74.0235	102.9644	34.1794
3027	83.8061	2453.4969	167.8524	2344.5071	601.5012
17936	83.7470	601.4779	77.0545	802.0074	204.1845
11916	83.6288	68.1432	11.3912	97.5082	51.8092
21653	83.5697	819.1572	255.0109	514.4674	139.4061
6377	83.5106	1462.8354	778.6869	718.0737	399.1619
18767	83.5106	110.3214	39.3906	73.9675	31.0290
7783	83.5106	22.5789	33.4931	39.3383	22.7455
912	83.5106	972.9948	131.4487	759.7573	161.6791
16479	83.3333	86.3972	19.1360	63.3767	19.2156
19241	83.2151	326.7102	93.6727	193.4731	67.5978
22413	83.0969	1033.7560	492.7225	460.5470	274.1363
11949	83.0969	62.7307	22.5361	37.8542	14.4648
20996	83.0378	371.4087	91.6844	249.7031	90.4286
8207	83.0378	87.9517	15.7201	62.4695	18.7447
1037	82.9787	173.6148	64.1794	94.1892	43.4224
15618	82.9196	500.4811	191.8636	263.9907	121.7532
18349	82.8605	387.3220	143.3906	222.1103	90.2778
20431	82.8605	18.3710	9.5408	115.8948	139.1245
771	82.8014	67.9828	27.3032	31.9989	16.8069
19646	82.6832	41.1887	21.6220	16.8051	15.5584
15891	82.6832	458.5871	37.9132	354.0491	84.8085
1496	82.6241	215.1470	53.4345	123.9139	50.3144
818	82.6241	2123.9054	2961.7942	2882.8758	1751.9427
19040	82.6241	1456.7989	334.2698	832.5591	301.2214
573	82.6241	12.4559	15.0523	80.6609	58.8500
13974	82.5650	1207.9378	581.1905	908.4260	250.2259
17145	82.5650	347.5722	303.8736	501.1010	208.5365
11493	82.5650	82.1960	37.8085	33.4349	53.5296
1598	82.5059	598.7171	265.2699	278.5711	270.5681
18396	82.5059	746.8849	347.2349	392.5732	196.5518
15617	82.4468	389.0241	151.9829	200.6340	86.7617
3831	82.4468	216.4721	91.4620	125.0053	62.3611
8872	92.7896	499.1034	128.5223	937.3703	243.1816
12542	91.9622	564.5841	72.9269	379.6807	149.0151
2267	91.1939	279.7553	38.6099	200.0360	66.5677
10063	91.1348	130.5700	12.3068	94.8841	44.7917

TABLE 5QQ: STEATOSIS			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2250	90.6028	2658.5946	320.2917	1637.4121	676.4109
22628	90.3664	84.4051	7.4632	137.3008	54.1077
22239	90.1891	121.3429	14.2020	84.0201	44.0684
12408	89.1253	427.3727	91.4926	205.6534	117.4253
9800	89.0071	181.8530	12.1150	244.1768	71.7987
14500	88.4161	14.8701	6.4960	42.0257	25.2456
18742	88.3570	31.6747	16.4046	88.5048	51.9420
7374	88.3570	28.8532	8.2043	3.5895	22.7084
14233	87.8842	324.1514	40.7442	225.1345	73.0459
6976	87.8251	77.8626	21.7676	44.8723	17.3190
12223	87.8251	479.3499	39.3358	356.0306	98.3688
5528	87.7660	87.7257	24.2315	219.8567	107.6102
14938	87.7069	151.8128	61.2224	50.4203	48.2778
12160	87.7069	166.5724	19.7403	343.2324	325.1653
14512	87.6478	18.7289	9.3041	116.0261	111.9933
2702	87.6478	1326.7594	233.0388	816.0287	294.5356
5491	87.5296	114.2678	18.9897	74.5325	32.3150
7618	87.5296	299.5808	21.9696	270.2680	112.8388
19544	87.2931	1859.2723	164.8088	1437.4596	375.4105
16781	87.2931	65.6841	22.3292	185.8067	100.0624
5859	87.2340	307.8782	76.6918	174.7722	61.8916
5009	87.1749	154.0234	34.5099	237.5931	63.4166
6828	86.8794	241.4102	38.5264	326.7695	144.4263
14509	86.8203	127.0463	57.1314	642.1332	566.0608
20035	86.6430	1230.5742	115.9504	1095.6678	521.0261
7559	86.5839	338.7061	56.5676	208.9602	70.6087
19146	86.5839	74.5348	16.6566	40.5905	28.5055
7208	86.5839	423.2532	33.4702	379.8826	112.8067
11871	86.5839	301.8713	253.0656	-129.2045	95.8139
11873	86.3475	292.0461	160.6966	38.6249	47.9817
14510	86.2293	137.1550	41.3722	434.1403	298.7073
24028	86.0520	443.1997	29.0527	401.4198	132.1793
4355	85.9929	593.3164	182.5764	311.6999	114.5174
20788	85.9929	20.2359	6.2420	6.7142	12.4059
10093	85.6974	323.1014	71.6556	588.7499	240.6768
3730	85.6974	207.5431	72.3964	603.7363	309.8724
1690	85.6383	335.2570	67.4026	227.4921	73.2405
21740	85.5201	314.8449	271.8371	438.3128	163.7373
6909	85.5201	610.1101	252.7247	273.1262	142.9221
7685	85.5201	26.9751	6.0747	13.7674	18.3390
3940	85.4610	956.9838	64.9657	1123.3561	157.7399
19456	85.4610	322.4558	106.5108	155.0471	143.9092
21797	85.4019	171.9753	71.9959	70.2910	55.3784
8025	85.4019	620.9579	61.2127	707.0812	248.2293
4048	85.4019	635.0280	193.4370	295.2411	283.1728
7963	85.2837	185.0342	9.8544	175.6246	44.5163
3436	85.2246	735.1383	191.7974	453.1402	182.3352
17065	85.2246	45.0984	7.1258	35.7454	23.5487
10533	85.2246	254.8817	66.1713	460.2874	136.0796
3014	85.1655	83.2896	42.4058	32.9352	19.2495
18696	85.1655	186.2689	84.3630	235.9197	58.6378
5080	85.1064	87.6777	46.0071	105.6568	28.4222

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TABLE 5QQ: STEATOSIS				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24171	85.1064	68.0720	31.6802	22.1050	15.2842
15624	85.1064	49.8132	24.9031	11.9728	24.4809
24048	85.0473	493.8236	100.3887	857.4699	244.4614

TABLE 5RR: Steatosis Hepatitis			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20971	94.6871	160.6774	20.3156	97.7072	31.3376
17405	93.8607	219.6943	18.9205	150.7992	34.7802
18770	92.5620	1193.1811	193.7162	812.9675	195.2545
6013	90.9091	174.4481	51.3394	529.6018	269.2348
4282	90.7910	13.6316	2.4100	71.7303	81.8421
4477	90.4442	245.0659	59.2290	99.5595	42.8807
21066	90.4368	247.3979	35.3013	184.6680	44.0055
11899	89.8465	41.7430	2.5749	36.7233	15.3501
15066	89.3743	366.3779	74.2467	645.4642	204.5449
588	88.7323	342.6214	297.6842	293.8613	122.9109
17502	88.5478	324.5731	52.8966	211.6597	74.3911
17281	88.2527	79.6129	13.5337	156.6858	82.9581
768	88.1936	77.6526	30.7513	212.2265	116.3633
13646	87.7878	2250.0970	299.4916	1613.7610	281.1583
13686	87.7804	58.9148	3.3413	47.4648	13.5505
25400	87.5443	251.1916	57.9022	608.1288	308.5013
16081	87.3672	886.4551	113.4836	1178.0178	594.6462
15070	87.3155	442.6201	123.3252	232.6555	111.5037
10744	86.7769	27.6860	3.1614	52.7053	48.4626
18725	86.3046	28.9038	17.0795	93.3542	59.1461
15642	86.3046	545.5520	92.1370	936.0513	326.4237
16510	86.3046	92.3845	12.4888	174.0506	80.4440
18726	86.2456	102.8848	29.4946	195.0788	85.3816
614	86.1865	215.4611	74.2669	376.9739	126.6187
15186	86.0094	63.3304	15.8858	114.7970	42.4102
16982	86.0094	2270.0128	363.2649	1619.7371	983.0583
1262	85.8914	20.0889	4.5694	42.7689	24.3174
16256	85.7733	176.0905	88.4145	581.3166	334.7948
17933	85.6553	352.9298	66.3780	247.9569	135.2538
1173	85.5962	36.3606	11.4448	203.9397	188.2477
18365	85.4855	155.9798	25.8586	100.9139	29.7418
10184	85.3011	65.7738	11.0726	47.2190	29.6594
23166	85.2494	803.0931	135.0776	554.2574	134.6423
2812	85.0649	260.6331	20.5246	209.4276	67.4652
15617	85.0133	358.1674	90.7948	201.1478	88.3829
20865	84.8878	17.5879	4.9904	34.5315	23.9237
1522	84.7772	266.2481	52.5727	133.0600	79.4296
17175	84.7181	2109.4948	406.0626	1616.7930	347.8754
16610	84.7181	678.4661	152.0508	434.5880	143.6682
4222	84.7181	1345.6535	119.5917	1041.4001	182.9729
14882	84.7107	98.3635	44.7153	357.1001	235.4039
17311	84.5927	272.4710	57.6656	345.9850	177.8414
24442	84.5927	15.6709	3.5798	30.5643	16.2281
22872	84.4820	186.9126	30.6677	144.0764	27.4023
17257	84.4746	7.4680	13.6777	33.3888	24.3803
9621	84.2459	1001.6635	177.2985	742.0244	172.5933
18687	84.2385	714.6949	164.9431	524.6853	431.9159
2854	84.1868	981.5269	193.5656	708.2228	204.3735
2846	84.1795	32.3373	6.7668	52.0268	19.4397
25209	84.1204	134.8290	20.0950	173.4607	35.2965
21014	83.9433	337.1251	132.2624	831.8178	437.4549
16301	83.8843	29.6913	9.3388	147.1134	147.4717

TABLE 5RR: Steatosis Hepatitis			Attorney Docket No. 44921-5113WO		
Timepoint(s): Various			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2970	83.8843	94.8343	36.2477	469.0053	378.7833
43	83.8253	95.0473	24.4303	168.9235	82.5741
15187	83.8253	40.9961	14.5866	92.0644	50.3244
4312	83.7072	140.4283	20.3414	137.0534	143.0579
1349	83.6555	4.5790	14.2513	26.3607	13.9367
4012	83.6482	199.0173	49.2719	528.3823	309.9721
15598	83.5375	436.6163	126.3227	595.9171	114.7644
16257	83.2940	120.1651	44.8306	213.3309	82.6373
11756	83.2940	46.2571	15.0628	98.4407	66.7424
24469	83.2423	1846.1886	131.4833	1501.8306	250.6679
25203	83.2349	21.2508	14.0690	58.4361	32.8798
4091	83.2349	1154.8765	62.7666	1146.3649	208.9862
1174	83.2349	132.0203	45.9040	594.4760	533.6458
17900	83.2349	376.3963	20.5938	379.6867	75.1632
243	83.1833	26.1939	8.5679	10.3680	11.6277
12028	83.1833	69.7726	10.2915	46.4106	16.1794
11153	83.1759	212.2358	22.2283	277.4671	84.3277
18867	83.1759	212.1526	35.0836	310.1561	158.2294
9136	83.1169	443.5870	52.1209	527.6480	154.0016
22918	83.0652	264.4065	53.0544	181.4009	65.3761
16511	83.0579	57.6629	21.3646	150.3932	107.6622
18226	83.0062	352.2586	53.7584	265.4117	58.1286
13647	83.0062	2818.4265	424.9860	2114.8683	494.7779
24247	82.9988	68.1320	8.9733	76.7161	79.9124
24697	82.9398	159.3628	13.2799	137.3243	30.8676
21006	82.8217	22.0309	10.4330	78.5476	71.9546
2118	82.7037	55.3801	10.3998	34.0886	26.2023
17171	82.6520	611.8070	195.5182	385.6650	181.1771
17431	82.5930	289.5151	19.0531	228.1524	66.1351
19086	82.5856	364.2333	45.0409	402.6738	162.6088
15300	82.4085	357.7895	75.7624	645.2803	346.3525
1531	82.4085	27.9689	21.0821	145.5954	131.3707
28	82.4085	15.2390	8.1425	59.0361	45.8997
1435	82.2978	1346.2631	216.6893	928.8676	279.2168
2694	82.2314	31.1421	14.6474	71.3906	36.4852
17999	82.1207	583.1346	194.0468	969.2270	261.6142
6049	81.9510	1813.9160	443.0417	1211.0265	281.3449
10949	81.9362	146.9866	79.4596	454.1877	294.4705
1801	81.8846	129.7823	30.1046	101.4297	28.4270
22909	81.8182	86.0510	10.1046	72.9125	21.7110
6773	81.7665	41.0870	9.5461	24.0782	11.7849
19085	81.7591	289.4649	34.3120	317.6259	119.7352
15259	81.7149	521.7283	135.1784	334.4770	97.1304
16366	81.6485	148.1950	57.8374	318.3341	133.7816
11962	81.6411	22.0761	15.6265	-3.6199	25.2606
24327	81.6411	1226.5344	163.0614	1025.6416	343.4248
4647	81.6411	232.5336	24.7594	213.0748	64.7389
15408	81.5304	153.8638	47.6026	96.9103	58.9378
20101	93.5655	457.3543	54.9640	255.5246	119.6932
3981	92.4439	22.3400	17.8805	207.1497	218.9264
14102	92.3849	598.4706	74.9775	376.7397	119.6691
15088	91.2633	276.6378	19.6658	211.6503	57.2248

TABLE 5RR: Steatosis Hepatitis					
Timepoint(s): Various					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23681	89.6104	550.3775	49.3547	411.9819	117.0779
16169	89.5514	4249.6308	771.6653	2770.7456	1389.5855
15858	89.4923	116.2461	35.2770	57.1735	51.3704
13634	88.8430	2779.3188	138.0727	2869.3730	1055.1649
17307	88.7839	266.2534	25.5037	208.7619	41.9660
9927	88.6659	168.3848	18.7265	258.6551	101.2129
16404	88.3707	179.4313	37.6465	110.8063	48.3766
20102	88.1420	549.4816	129.3233	287.8646	106.3704
19035	88.0756	232.9458	24.6635	330.3220	94.1324
10984	88.0165	58.2085	26.4728	177.5192	111.6921
23471	87.7214	93.2310	13.2546	142.5668	93.4378
8584	87.6623	33.8354	71.9923	288.0836	213.3921
16985	87.5517	1877.4846	343.7114	1276.9794	277.6955
14379	87.4852	54.1475	10.4474	28.2413	20.6582
18095	87.4336	2521.0894	113.0567	2003.5526	346.6912
8227	87.3672	29.5505	6.8860	59.2567	31.4269
16405	87.3155	319.2406	95.0364	99.6563	104.5605
11969	87.2491	38.7705	3.6354	31.6632	25.9316
20055	87.1901	235.5269	54.4351	125.2405	104.0420
6004	86.8949	684.5655	164.7374	1122.3866	329.3794
2702	86.8433	1306.1274	292.2685	816.8265	294.8871
20396	86.8433	588.4740	83.2776	422.3242	92.0954
23108	86.7769	97.8548	22.6590	61.3262	26.8007
6692	86.6588	256.7388	25.0557	370.1926	122.6576
19196	86.5998	65.0639	5.9925	83.8726	26.1090
23358	86.5481	349.5090	67.6587	521.4563	99.2611
18094	86.4300	2911.0743	473.2775	1995.8513	500.5462
14224	86.3046	241.5544	12.5218	236.1297	55.3536
11527	86.2530	426.3274	72.5160	254.5231	93.6394
23338	86.1939	5750.4274	764.9815	4346.6627	764.5263
17297	86.1349	1114.1456	121.0307	835.9664	163.9477
23504	86.0168	790.1519	124.0210	540.6148	141.7137
8917	85.7807	117.8224	31.2363	53.4996	44.2516
17618	85.7143	159.7138	8.4220	149.3617	32.9493
6240	85.7143	128.7299	32.0724	63.9880	90.4755
3153	85.6553	74.6275	20.3271	38.5638	34.0235
5208	85.5962	2162.8751	262.7970	2662.0320	1360.5467
18756	85.5372	111.7006	15.7015	145.4240	93.8193
2988	85.5372	160.1736	20.5662	123.7956	32.5908
24373	85.4191	137.6193	19.9943	208.6827	74.8221
10157	85.3601	714.5535	186.1251	476.1838	261.7957
4196	85.3084	29.9756	18.0007	-10.8080	37.0401
15382	85.3011	1793.5466	189.5163	2166.0173	895.0360
15645	85.3011	898.0199	129.1839	1328.1020	420.2625
2548	85.2494	1623.5571	886.0803	1699.5642	523.0992
14561	85.1240	139.5658	17.4653	195.4121	54.3948
23444	85.0649	725.4740	60.1504	641.4610	186.2244
5331	85.0133	473.7515	51.8184	355.1758	65.9662
24270	85.0133	1051.8966	124.7951	714.5563	217.3034
23505	84.9543	1736.2586	205.8525	1292.2918	317.2629
2781	84.8952	277.9186	56.8619	138.7155	93.7908
12591	84.8952	114.7761	47.3337	52.3927	38.0594



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TABLE 5RR: Steatosis Hepatitis				Attorney Docket No. 44921-5113WO	
Timepoint(s): Various				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
7379	84.8878	56.9178	15.1308	95.6125	35.5607
14527	84.7772	315.2640	84.1405	162.6233	85.9069

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TABLE 5SS: TACRINE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2970	NA	103.5400	0.0000	466.3530	378.7759
16562	100.0000	53.2050	0.0778	147.5822	50.5004
17937	100.0000	137.4650	0.8132	47.8450	36.2754
23699	100.0000	127.7450	0.1061	292.0689	298.6437
18578	100.0000	200.5000	0.0283	137.2611	102.3528
11297	99.9414	37.9450	0.1344	23.0256	10.2062
16768	99.9414	115.2200	3.6911	235.4470	85.7427
17883	99.9414	22.7750	0.0071	23.6963	56.0307
911	99.8828	228.0600	3.6345	91.4573	41.4833
1517	99.8828	37.9800	0.0707	22.2816	19.0014
9037	99.8828	25.8050	0.0212	5.5973	13.5195
16450	99.8828	218.9750	0.5020	151.7440	64.1750
14621	99.8828	110.1850	0.2899	186.4561	49.4775
16148	99.8242	151.7550	2.5244	488.1605	363.4180
17740	99.8242	883.5250	8.3226	1816.3087	404.2780
19106	99.8242	25.6850	0.0495	11.2130	12.4027
24825	99.8242	112.3550	10.8117	853.2472	419.7833
24019	99.8242	174.4150	0.7566	89.1189	42.6537
7176	99.8242	912.2000	32.5552	304.6680	131.4952
19	99.7655	1561.6350	48.5570	710.5550	209.8161
21981	99.7655	133.9500	0.6223	278.2877	80.6929
1639	99.7655	57.4200	0.3960	114.0865	36.2433
11314	99.7655	122.8500	0.1273	146.9278	31.6112
25747	99.7655	1532.5500	1.4991	2038.1920	747.4137
910	99.7655	248.2550	2.4961	110.8944	39.7258
6539	99.7655	209.2400	7.4105	-2.3766	79.2497
9866	99.7069	68.4400	0.2687	10.7564	31.7018
25312	99.7069	21.7950	0.0919	4.4223	12.9729
4349	99.7069	3.4350	0.0636	20.2799	14.0476
1557	99.7069	68.1550	1.6758	16.5620	14.3231
3902	99.7069	555.2450	29.9601	225.8690	65.0409
1573	99.7069	27.5150	0.0354	20.3497	9.9939
13480	99.7069	124.8150	2.2840	326.1053	98.6026
25039	99.7069	139.7100	3.8891	493.3188	177.1522
9929	99.7069	76.6600	1.5132	230.3032	125.8165
16029	99.7069	26.6000	0.1131	8.3887	9.2948
15579	99.6483	2.0600	1.9658	597.7420	505.0392
18293	99.6483	185.3350	12.2259	654.3397	377.2083
17101	99.6483	932.8750	20.5415	456.5038	163.8760
23321	99.6483	57.4550	0.3606	115.5587	42.3639
23679	99.6483	330.0850	2.4678	175.8115	93.7772
15174	99.6483	113.6400	0.3394	51.8665	47.8465
18366	99.6483	161.0050	0.8980	78.4435	28.8015
2439	99.6483	68.3100	0.0707	74.7484	19.1290
20494	99.6483	-1.3650	1.6617	194.2949	182.8439
21709	99.6483	67.7450	0.5020	136.4161	58.0181
19326	99.5897	180.5800	0.1273	150.5905	44.0303
25137	99.5897	46.0700	1.0465	14.4783	7.8661
22352	99.5897	834.5500	6.4205	437.3252	225.0369
3405	99.5897	1032.9150	20.2020	564.5727	154.6144
18810	99.5897	280.2150	4.9427	476.2396	104.9007
15402	99.5897	98.2750	0.1626	109.8581	59.7301

TABLE 5SS: TACRINE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17421	99.5311	117.6850	0.5303	208.5176	59.8855
17691	99.5311	47.6100	0.5515	103.9200	37.6788
22025	99.5311	1325.1750	6.7670	2624.1173	862.3145
820	99.5311	112.7300	4.8083	1031.5106	716.5980
906	99.5311	58.8300	0.4808	36.3711	22.7198
16139	99.5311	107.5250	0.6576	60.5581	20.7526
11350	99.5311	2.5000	0.2263	24.4079	14.0898
17469	99.5311	3.4650	6.2013	72.0691	33.2045
15659	99.4725	209.7700	2.8143	106.9566	33.7689
16807	99.4725	131.5900	6.6468	871.6723	712.7876
16085	99.4725	24.3100	0.8768	97.4730	51.1015
20405	99.4725	44.9500	0.9758	218.9129	96.9160
21955	99.4725	111.5200	1.7961	38.9004	28.5789
505	99.4725	28.4700	0.0990	19.3321	8.9706
21903	99.4725	203.2450	1.1526	404.9279	203.6163
17953	99.4725	86.1750	3.5992	175.8246	43.7674
20746	99.4138	2064.7150	56.5898	561.9233	300.1698
13464	99.4138	110.1150	1.1667	46.6698	31.2359
18450	99.4138	493.3850	0.7000	561.9134	125.3520
631	99.4138	22.9550	0.3182	10.9420	6.1584
326	99.4138	25.9550	0.1061	24.9881	34.8308
22321	99.4138	1811.4350	11.5046	831.5685	434.1778
5496	99.3552	58.5050	0.4738	164.5488	97.5220
18281	99.3552	26.2250	0.1061	35.9166	15.1228
21115	99.3552	147.2300	3.7901	40.4477	45.8975
16930	99.3552	163.0450	3.7972	612.6991	336.3550
15151	99.3552	51.3000	1.0889	87.6226	19.2414
15301	99.3552	479.7200	6.2084	269.3189	180.9814
25528	99.3552	67.0600	0.7920	37.8852	14.6198
24865	99.3552	105.7450	87.8863	2.3034	7.8968
21909	99.3552	20.4650	6.6822	78.8265	27.9688
133	99.2966	261.8850	7.3893	88.8113	72.5302
2368	99.2966	275.6100	5.7558	464.1293	104.7198
537	99.2966	298.8550	30.7521	921.2896	355.0487
16895	99.2966	23.9200	2.4324	265.7455	167.2385
1422	99.2966	32.7550	2.0577	78.3471	20.8470
18724	99.2380	125.5800	0.7354	205.6322	135.5263
6968	99.2380	87.2650	2.1001	154.7789	34.2473
1537	99.2380	22.5050	0.1202	18.0736	11.2864
21078	99.2380	22.0350	4.4194	136.3941	75.5033
600	99.2380	146.2900	15.3584	326.7648	62.0976
1946	99.1794	39.6950	0.1909	49.7693	30.5278
18618	99.1794	3136.4250	23.9638	2253.7834	363.2427
18226	99.1794	394.7000	7.7499	265.9230	58.3964
17075	99.1794	1360.9150	78.6939	745.6014	159.0414
17742	99.1794	741.7900	64.3043	1389.8200	241.1768
13974	99.1208	983.5250	1.5486	911.4101	257.2852
23202	99.1208	51.2400	0.1556	63.1458	24.7472
15673	NA	776.5300	0.0000	1000.9494	162.8365
23177	NA	152.0700	0.0000	110.4291	58.8790
12583	100.0000	136.8350	5.9326	23.2650	13.8216
11818	100.0000	5.2000	5.8690	107.5256	37.0268

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TABLE 5SS: TACRINE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
9821	100.0000	428.2800	4.3275	150.1009	47.3008
17865	100.0000	667.4100	0.7495	398.5542	61.9791
6225	100.0000	88.7050	0.4738	15.2678	22.6247
11179	100.0000	30.9350	0.0071	60.8276	35.2934
4401	100.0000	2.1500	0.0849	44.3877	17.1401
6824	100.0000	1792.0800	0.2263	2125.4592	576.8841
15088	100.0000	263.1500	0.0424	212.1390	57.3409
5966	100.0000	165.6150	0.2899	69.9456	40.4303
12132	100.0000	120.9600	0.0424	83.3198	38.3014
13492	100.0000	-29.1350	0.0495	37.6392	34.0107
3833	100.0000	98.4450	0.5728	212.2015	63.4695
16492	100.0000	212.7350	0.0071	347.6728	348.1016
21142	100.0000	225.8000	0.0283	117.2754	48.7097
6841	100.0000	48.1200	0.1273	276.7175	110.1302
21933	100.0000	418.3350	0.5162	1193.7798	681.6302
17524	100.0000	112.6600	0.4384	421.3103	210.0524
16568	100.0000	210.1300	0.2970	364.1859	89.4826
16702	100.0000	21.4600	0.2687	132.5360	85.9691
19009	100.0000	215.5000	28.8358	1075.5486	293.8527
14737	100.0000	278.1750	16.9918	1144.5061	356.1780
13865	99.9414	41.4850	3.3163	136.8927	32.6176
23989	99.9414	59.8050	4.9144	330.2910	156.6154
13706	99.9414	83.0600	0.0990	179.3668	85.9286
1335	99.9414	140.3450	8.2237	495.5679	150.1717
3069	99.9414	44.2300	0.3960	117.9445	43.4784
22125	99.9414	144.1500	0.8627	42.1928	40.8735
4806	99.9414	115.7950	1.8314	18.5775	17.7280
7658	99.9414	410.2300	1.9799	231.0706	75.6830
8173	99.9414	1347.0200	39.2586	532.1782	112.1150
11256	99.9414	2.9350	0.0354	51.1866	26.4789
21861	99.9414	694.4750	11.0662	324.2242	71.9345
18826	99.9414	690.0500	0.6364	1832.4688	925.8768
2454	99.9414	62.2650	0.0071	79.0172	57.4390
14608	99.9414	74.4100	0.1131	182.0813	76.3075
12438	99.9414	257.4950	0.2616	142.6530	66.3890
22011	99.8828	132.6350	0.0778	128.6263	35.1819
4230	99.8828	679.3500	2.8426	412.8724	86.6259
23788	99.8828	32.9500	0.0707	95.3732	35.4522
10531	99.8828	74.8600	1.1455	31.7095	11.4970
17746	99.8828	93.2850	0.1768	141.5190	36.3115
14705	99.8828	29.9200	0.4243	5.6596	16.4007
9475	99.8828	60.7050	0.1344	174.7499	86.7860
6555	99.8828	188.8450	0.1485	259.5588	58.9095
21898	99.8828	148.0400	0.5233	97.9167	23.1769
12726	99.8828	66.9350	0.1768	123.2551	32.5349
5013	99.8828	749.9200	15.4432	175.0053	133.7395
22863	99.8828	79.5450	0.0636	55.1453	26.2597
7582	99.8828	119.0450	0.2051	227.8981	72.8248
14892	99.8828	184.1750	0.5869	110.7287	34.8198
24388	99.8242	1908.8100	47.9843	708.2736	243.9230
4979	99.8242	39.8400	0.0424	66.6662	27.2960
2241	99.8242	261.1550	0.7849	162.3622	41.5715

TABLE 5SS: TACRINE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID-NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12899	99.8242	134.2800	8.4994	-29.1558	30.8640
14664	99.8242	929.0850	23.9073	340.3356	111.8307
6384	99.8242	345.4500	0.6930	217.9104	70.0789
17715	99.8242	62.9250	0.1061	147.4092	98.6284
7323	99.8242	-179.2950	5.6922	48.8643	68.4894
23587	99.8242	232.2050	0.2475	161.2546	47.9947
9490	99.8242	175.0800	0.1273	145.9418	44.6498
2972	99.8242	142.3650	1.2374	328.6134	114.7261
6943	99.8242	21.3400	3.7194	106.8212	35.5143
2321	99.8242	27.6550	0.0778	10.5680	15.9059
8321	99.8242	178.8000	0.0566	219.9885	53.5920
497	99.8242	753.6750	11.4905	327.0064	110.0074
20473	99.7655	65.3050	0.0636	56.9158	24.3544
11347	99.7655	24.0050	0.1344	1.7679	13.9558
7519	99.7655	740.2500	2.6163	491.8320	103.7716
11391	99.7655	328.4000	1.1172	193.7570	58.3774
16216	99.7655	1901.4250	12.7209	907.4193	450.4118
3828	99.7655	58.9300	0.8202	495.1482	311.7184
2690	99.7655	95.5900	0.5233	163.8505	41.7294
3784	99.7655	39.5150	0.6859	152.3127	55.1464
18891	99.7655	-12.8400	0.6930	86.7338	100.8369
26178	99.7655	147.0400	0.1414	114.1493	47.2295
5648	99.7655	63.0100	0.0707	71.4211	67.6753
16096	99.7655	109.5850	0.6718	312.5899	123.1645

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TABLE 5TT: TACRINE					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23872	98.2311	983.9157	199.5701	169.3366	159.0538
23869	97.3467	944.6771	246.7732	161.6538	148.8786
23871	97.1698	242.4357	65.5672	62.6747	45.8812
1727	96.9340	1272.3400	165.9392	418.9107	278.1729
23868	96.8750	2801.2214	912.7085	558.8429	490.7302
3455	95.7547	962.2329	214.2881	425.5533	159.6486
21491	95.3420	357.2600	78.9511	148.4809	68.7493
9867	94.8113	36.6957	13.5717	4.6744	14.9516
24019	94.2807	140.3343	7.1887	88.8973	42.7219
15301	93.9269	543.6229	106.4752	267.5508	179.8524
20162	93.8679	195.4343	52.9686	75.5634	83.7044
21843	91.8632	75.2929	9.0362	125.4918	35.1651
24431	91.4505	618.7814	107.0189	401.8212	308.9506
22351	90.4987	260.7714	102.1942	70.5961	34.5315
11454	90.2123	368.4943	69.4484	229.5099	104.8890
19781	89.6142	133.5629	65.2530	35.5182	23.0719
26004	89.1509	40.3357	3.5908	29.9473	17.2507
26047	89.1425	742.4829	395.6452	163.2843	191.4115
22352	89.1425	1048.5257	299.0050	433.2167	218.1184
3454	89.0246	599.5071	179.2829	223.6597	105.2919
3549	88.8561	271.9486	22.9828	359.7190	79.6038
818	88.8561	2999.9686	195.7954	2873.8541	1774.9830
15137	88.8561	1171.0057	61.7411	1542.2644	344.0244
23895	88.6792	148.5471	18.9320	104.2024	32.0240
17161	88.5613	3345.4814	341.4743	2226.7127	732.6571
4327	88.1486	514.3543	94.9936	329.7588	115.1570
1337	88.0307	75.7114	13.0368	119.1759	32.3055
23329	87.7948	29.2800	3.9824	50.0744	19.5731
132	87.3821	236.7686	35.9937	154.0949	82.2401
857	87.3147	44.4086	20.5752	13.8536	14.2781
18361	87.2642	1863.7886	229.8218	1260.9934	453.3423
4091	87.2052	1173.1129	49.0403	1146.2244	208.8874
13930	87.1378	362.8271	59.2915	197.2753	96.9124
23033	86.8514	320.3129	45.0084	501.2156	150.5150
4325	86.6156	27.8486	3.0351	37.0113	12.3454
606	86.5566	23.2757	13.4089	-8.4886	32.2487
16112	86.4303	205.9771	51.1321	110.6604	43.2425
8898	86.3797	681.9729	54.9702	873.0014	192.5576
591	86.2618	51.8857	9.5042	37.2297	17.1190
18192	86.1439	24.2386	3.0385	17.9108	10.6304
4418	86.1439	39.6086	4.1019	36.2465	20.7007
15850	86.0849	2260.5871	113.1967	1963.9867	351.4734
721	86.0259	39.0914	2.6735	39.2985	15.6963
25170	85.8996	146.6771	30.1536	79.9596	33.4173
11210	85.7817	71.1100	16.1524	37.6047	19.0501
15558	85.7817	552.7314	90.1649	397.9835	79.0101
17516	85.6722	83.0700	12.5387	136.9241	61.1138
6595	85.6722	149.9043	9.5285	153.6331	51.9185
3787	85.4953	22.4786	8.0402	44.5831	18.2475
347	85.1415	77.8900	7.9839	63.7338	23.1654
10340	85.0825	71.7429	6.7812	65.4609	26.8971
15154	84.9646	350.5100	33.6014	484.6277	169.7843

TABLE 5TT: TACRINE					
Timepoint(s): 3, 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25699	84.9646	39.7371	8.7788	50.1714	47.7353
20876	84.9057	2159.8029	347.3916	1790.7775	415.6758
24179	84.8383	28.1629	6.3487	16.0758	6.6144
12523	84.7877	384.2286	42.5338	283.1502	83.1627
23282	84.6698	334.9886	30.1625	435.0846	94.1321
19	84.5435	1117.6929	205.8558	709.2015	210.5323
643	84.5435	35.8529	19.8017	13.9517	24.5091
958	84.4340	281.7686	57.9231	505.4072	203.6894
17302	84.3750	37.5157	10.5132	65.5103	26.0095
4366	84.3666	24.4314	9.0234	12.4939	7.6537
447	84.1981	14.7129	4.9648	32.5033	20.1118
18302	84.1981	106.2471	16.5174	137.7032	73.2874
20433	84.1897	69.5114	22.8948	36.9608	44.5993
21062	84.0128	70.0029	12.2854	40.0277	20.8070
25278	83.9623	43.0671	4.1411	41.1372	17.0278
15492	83.9623	126.0614	17.8452	193.6118	64.4575
15203	83.9033	213.2329	15.1756	255.5725	58.7833
20745	83.8443	246.8629	30.6570	415.2049	223.4928
14465	83.8359	68.2871	17.9202	23.3428	23.8375
16510	83.7264	136.0986	17.1776	173.5934	80.7074
16319	83.6675	78.4886	14.9945	78.5918	49.4090
1731	83.6675	53.3229	12.8569	86.0349	34.1281
20481	83.6085	22.2486	3.6757	35.7061	15.7807
737	83.5495	49.1214	14.1827	20.8368	25.8939
1451	83.5495	34.7600	5.8016	30.4490	28.8005
20493	83.5495	112.1429	10.3164	108.9247	47.0321
904	83.5411	26.4029	9.8228	49.3710	12.9838
18572	83.3726	554.0200	25.6497	617.9267	127.1076
6653	83.3726	219.5857	41.2769	331.8192	94.1615
9136	83.3726	629.9786	46.7634	526.0103	153.8602
17712	83.3137	248.0057	19.5725	291.3135	57.1872
17473	83.3053	826.8086	194.2494	548.7859	161.1323
17123	83.2547	378.8614	33.1429	301.6688	68.8544
24838	83.1958	657.9529	48.6502	858.1014	307.6628
24718	83.1958	227.1886	52.4478	155.6433	103.1550
20249	83.1368	25.5143	4.1151	38.4195	18.7789
25841	83.1368	24.6914	7.7673	7.6599	20.0876
22593	83.0778	22.0443	12.0429	5.8963	23.6166
21693	83.0189	445.5971	104.8545	335.4754	136.6263
22350	83.0020	45.6986	28.0987	15.4355	10.1941
3862	82.9599	34.7829	5.8880	36.2221	25.3391
21952	82.8420	92.7100	6.6260	104.6165	24.5455
16198	82.8420	85.6000	5.8105	106.7979	36.2553
18043	82.7746	242.9629	47.7755	134.6822	78.5403
16312	82.7662	81.1243	32.7066	29.5812	16.8308
25680	82.7241	1015.3886	84.0886	1069.6719	309.2812
489	82.6651	104.0043	42.1703	448.3203	474.2084
20018	82.6567	63.5329	23.0792	28.2982	29.9847
22885	98.9387	541.7457	169.0885	2211.0320	675.9507
23230	98.5849	1295.2471	199.3443	571.5190	168.5048
5469	98.4670	421.8157	52.6613	186.1822	57.1558
18434	98.0542	1046.3314	221.9096	407.3745	155.6930

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TABLE 5TT: TACRINE					
Timepoint(s): 3; 6 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2655	97.5236	2475.9571	371.0665	935.1263	451.1893
6609	97.1108	1867.3343	242.4095	1049.5035	268.0560
19723	96.8750	621.8243	120.1396	223.6366	107.1919
8143	96.8750	732.2643	205.8705	233.9692	130.1926
3759	96.6392	564.7314	109.3751	269.4965	85.1330
13618	96.4033	367.5214	52.1896	211.8028	50.0483
6897	96.0495	593.9971	153.4014	248.0066	103.3599
22263	95.4599	239.3829	15.2776	162.7295	42.5036
21579	94.9882	795.9300	174.8529	317.0796	168.2579
21698	94.3396	158.7829	19.9094	99.2156	29.8815
14760	93.6321	92.0071	9.3269	49.1990	29.1956
23404	93.5142	151.5843	19.6418	87.2057	34.0529
14335	93.0425	118.0571	9.0830	76.8193	26.7527
8496	92.8066	183.1171	31.5137	90.3151	49.3134
21275	92.6297	1405.4471	219.8437	824.0714	294.0943
16970	92.5118	892.4200	42.6024	687.2892	137.0219
21311	92.3349	53.3343	4.1858	41.5706	44.5722
7516	91.8548	295.6343	274.9823	0.8575	26.4925
22213	91.6863	530.3829	40.2104	409.7618	68.5797
10182	91.6779	186.3914	154.9259	-11.5268	23.4917
6174	91.5094	215.1714	60.5651	426.5655	141.5273
2091	91.4505	325.2514	37.5717	225.2499	60.2522
11575	91.2146	436.5614	29.2897	330.7193	68.1583
11435	91.0967	316.1843	24.2358	230.3909	55.2187
2099	90.9198	1175.9557	129.3827	843.5866	201.7875
14380	90.9198	106.1314	36.8391	246.8648	98.3464
2264	90.9198	186.3171	5.0135	171.8866	40.4568
16671	90.5660	-6.0429	17.1202	42.1197	32.5907
14560	90.4987	261.7629	113.7426	99.3738	36.9173
14519	90.3892	160.4557	21.9361	96.2858	48.6230
5255	90.3892	381.4500	66.3175	207.3205	103.0740
6290	90.3302	89.6057	10.1914	139.9339	38.8379
5996	90.2712	49.2986	7.2405	85.3905	31.1449
8296	90.1449	393.2786	147.6801	191.9145	53.1043
15113	90.0943	126.7786	27.2254	197.3593	46.6165
5781	90.0859	501.0557	244.4327	149.5959	84.9565
11763	89.9680	528.6914	154.1662	140.6452	91.6764
2188	89.9175	192.4186	22.8709	134.4135	46.3205
13645	89.7995	66.4886	10.0597	110.0156	34.2365
19248	89.7911	346.9700	50.8054	206.7090	45.5772
2245	89.7406	105.8314	19.1335	66.9590	25.5685
12394	89.6816	307.2057	35.4213	227.1283	58.3315
4049	89.6816	132.2857	61.4232	614.3919	444.7317
15089	89.6816	442.7000	20.8373	533.5996	172.1683
12926	89.6226	257.4257	38.1427	174.9156	60.1284
5012	89.6226	870.4286	111.6776	601.7194	169.5134
8036	89.4963	235.6100	70.8868	116.9312	71.8052
5953	89.4373	877.7186	141.1901	335.6551	165.5331
18485	89.4373	108.1371	48.6663	46.6956	19.7346
8173	89.3194	851.6057	159.8917	531.4632	114.8422
6974	89.2689	369.1186	55.1827	257.2524	90.9307
22387	89.0330	701.4071	84.0406	1048.8351	263.6860



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TABLE 5TT: TACRINE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3, 6 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18693	89.0246	567.9229	125.7617	289.8807	87.3101
20903	88.9067	966.5000	493.5537	367.7951	211.7213
17335	88.8561	68.9543	13.2696	120.2965	36.3013
7596	88.8561	87.9186	22.8738	163.2979	57.8696
12354	88.6792	70.4057	19.4453	154.7402	77.0413
26119	88.6203	377.0443	46.4320	273.5277	78.1566
23299	88.6119	2931.3757	1162.8723	1233.7692	549.6677
17614	88.5024	71.4400	30.5388	161.5714	61.4038
12873	88.4939	294.7614	104.1976	121.3084	57.0812
16688	88.3844	889.9757	79.2459	688.0041	195.6798
22211	88.3844	1882.0186	167.2309	1371.5057	365.0129
16216	88.3170	2072.7771	540.1016	900.1439	439.3844
11421	88.2665	145.5086	7.1754	171.6296	43.5099
7161	88.0896	231.7743	31.5337	160.3439	49.0815
2049	88.0896	264.4686	34.1012	166.5597	82.0812
22366	87.9717	133.9971	48.5983	224.4516	62.2997
5937	87.9043	637.3071	115.7359	371.3326	97.1509

TABLE 5UU: TAMOXIFEN				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20712	99.3537	73.2350	4.2969	246.6146	132.6729
537	99.2949	301.4650	34.4555	922.7402	354.1958
819	99.1187	350.7650	21.4528	1706.0754	942.9961
14964	98.3549	77.4925	7.9388	296.6999	224.5681
818	98.2961	482.9025	74.1621	2886.1298	1764.3057
1818	98.2961	268.2250	36.1530	762.0535	294.6689
1959	98.1786	285.8900	88.5445	1344.7558	853.6845
24645	98.0611	28.3125	6.2424	115.8804	43.5378
1958	97.9436	366.5025	167.4034	1764.5784	838.3526
17634	97.7673	-3.8300	4.8156	83.5693	63.7451
1798	97.7086	271.2650	47.3768	1202.7976	660.1977
3430	97.4148	983.9000	100.6391	500.0248	182.2723
1995	97.4148	44.2475	3.1944	279.8447	212.4640
820	97.2385	132.2475	43.1126	1033.5782	716.1640
14583	97.2385	642.2025	28.8046	397.6900	121.3904
1552	97.1798	3.8650	3.0714	85.5140	66.1498
6539	97.1798	153.1525	18.7883	-2.6103	79.2817
16947	97.1210	93.1825	17.5824	346.8137	139.0529
1504	97.1210	71.9275	22.9621	17.0339	15.1435
21827	97.1210	97.3675	2.5261	148.3878	37.1786
670	97.0623	70.9750	14.0824	313.6704	123.1651
4500	97.0035	107.2200	30.9614	34.1040	25.3494
20939	97.0035	1160.0600	173.4027	544.2771	176.7299
19073	97.0035	692.7850	39.2860	461.1304	100.6003
20746	96.9448	1353.5725	173.2066	561.7341	304.2637
20493	96.8860	24.4725	7.9108	109.3481	46.5949
2384	96.8860	35.1975	19.5715	287.3799	165.6545
13488	96.8860	11.1800	1.1493	29.2904	12.8387
4225	96.8860	82.4175	5.9427	167.5647	59.9193
15661	96.7685	96.9400	50.9059	29.4486	25.9326
24774	96.7685	21.6625	0.4640	21.3980	10.2175
17913	96.7685	347.1700	18.2050	230.9473	62.6904
1562	96.7098	126.0300	16.9322	321.8230	128.5222
844	96.7098	60.5500	12.0698	142.6625	38.5503
1551	96.7098	36.2575	11.1872	179.7551	92.5960
19181	96.7098	161.2475	29.7691	91.7429	22.4198
3717	96.6510	713.3725	31.8238	427.2528	141.4711
26032	96.5922	91.2750	14.9230	502.4963	438.6481
1531	96.5922	7.8300	3.7815	145.1372	131.2302
228	96.5335	54.0800	10.0844	117.4644	36.7597
3453	96.4747	234.7600	12.8079	150.0519	37.5972
15671	96.4747	197.8750	2.2011	236.9966	48.9935
25907	96.4160	213.2725	32.3002	79.4058	49.0147
1508	96.4160	56.3850	15.7996	267.8969	123.1980
6107	96.4160	1081.3975	132.4071	543.4359	214.3742
20801	96.3572	413.1175	37.7377	223.3056	103.6003
24033	96.2985	132.7900	23.9543	67.8103	22.7330
16948	96.2985	37.3300	16.4045	292.9766	194.1653
25204	96.2397	21.5675	5.9691	106.6479	56.2077
18597	96.2397	2170.7300	287.1219	1074.1398	364.8949
22841	96.2397	468.2525	92.3926	237.1032	85.2221
20716	96.2397	153.3575	61.2643	524.1209	180.7976

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TABLE 5UU: TAMOXIFEN			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20931	96.2397	270.7925	10.2060	222.4098	141.9609
20984	96.1222	47.1150	7.7180	149.9955	147.8467
25799	96.1222	475.2525	40.3262	211.8581	140.4310
25777	96.1222	3390.6575	530.9110	1742.9540	556.8336
32	96.1222	-9.2000	12.9131	50.8835	27.1338
18498	96.0635	366.9300	36.5774	237.9460	55.3007
1550	96.0635	-0.6375	2.9208	44.3582	35.9754
20745	96.0635	900.6675	247.6286	411.5383	220.6214
16895	96.0047	31.6300	16.1424	266.2776	167.0718
6108	95.9459	921.1450	124.5260	508.4083	173.8601
4426	95.9459	452.6500	31.4705	276.6623	76.3657
17937	95.9459	91.7975	4.1825	47.8490	36.4520
614	95.8872	169.1200	21.8488	376.4326	126.6590
16807	95.8872	148.4900	47.0198	873.3322	712.7964
19084	95.8284	601.5225	12.5162	462.6870	93.7481
17836	95.7697	198.3100	34.5121	110.0593	33.1273
2667	95.7109	47.2775	15.3800	180.6304	85.6554
24204	95.6522	269.0675	27.7240	154.7672	48.7920
6055	95.6522	63.6900	23.0997	315.6228	163.3712
1561	95.5934	27.4525	16.1425	248.2342	146.5969
25567	95.5934	911.9150	189.1161	427.3259	180.2790
16721	95.5934	53.7675	8.5771	123.8304	48.6449
1515	95.5934	78.2025	3.9129	49.5178	18.6188
22919	95.5347	379.3025	46.3613	246.8864	60.8989
16306	95.5347	103.9950	37.2183	272.9263	80.8883
20650	95.5347	60.5775	56.0918	607.4079	404.9776
1045	95.4759	119.3150	5.8786	84.4845	27.2718
17764	95.4172	3903.6000	308.2638	2521.9503	641.9945
17064	95.4172	218.7375	31.8654	111.1074	48.3979
16562	95.4172	78.3800	6.7888	147.6856	50.5424
4574	95.3584	120.0150	18.5328	327.3189	128.3071
21989	95.3584	204.1450	35.7400	111.0605	34.0671
18108	95.3584	1018.6800	53.9662	708.3548	180.3863
17684	95.3584	10.0875	6.8472	62.4618	32.9998
18719	95.2409	18.5225	4.8967	129.9561	94.5962
1546	95.2409	38.4525	9.2093	108.1505	45.5193
4314	95.2409	45.4900	15.4041	163.9044	83.6661
17088	95.1821	646.9650	118.2375	350.8275	135.7461
14632	95.0646	217.9625	80.9555	941.8350	394.8074
22282	95.0646	249.5400	32.4191	144.5311	45.3856
16343	95.0646	326.7425	62.5674	178.9057	56.1984
4256	95.0646	56.1675	15.0496	8.4601	21.7591
1522	95.0059	274.6425	22.9766	133.6465	79.8282
23961	95.0059	79.6625	36.1386	274.2524	121.8769
13283	94.9471	31.7475	16.2761	145.5260	71.6416
24235	94.9471	1083.8450	50.6272	761.3037	226.2534
25643	94.8884	978.1175	113.9602	544.6124	207.6690
17727	94.8884	120.9950	26.7159	60.5948	21.9614
21649	98.8249	1224.6075	88.9280	405.7291	223.6608
19623	98.7662	249.0650	23.1384	97.9027	53.0408
19456	98.6486	606.1225	53.6072	154.6974	141.5054
22884	98.5899	438.0175	32.4143	236.2737	55.9184

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TABLE 5UU: TAMOXIFEN				Attorney Docket No. 44921-5113WO	
Timepoint(s): 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
5954	98.2961	1646.9800	337.4062	5526.0327	1795.6730
22079	98.2961	1090.4550	75.1320	2414.0943	763.5619
5446	98.1199	162.8375	12.4656	75.8704	31.5587
4049	97.8261	1865.1750	152.8462	604.5471	437.5927
16345	97.7673	1827.1925	119.8859	1000.9747	273.3885
23261	97.5911	38.3825	11.9430	395.8926	235.8133
7586	97.5323	-3.5800	3.6097	55.7322	51.1290
3163	97.4736	68.1525	0.9482	53.6844	32.5928
17791	97.2973	66.2150	8.8603	151.5819	47.6460
2528	97.2973	644.6925	141.0519	202.2028	113.6257
12719	97.2385	378.9275	56.7535	148.8357	67.4589
8759	97.1210	191.2950	7.2961	96.6631	145.5170
12306	97.1210	6.5325	1.5131	60.9653	71.2700
17812	96.9448	123.8800	15.5956	356.2407	156.0959
2668	96.9448	101.4875	18.9320	409.1415	230.2966
3579	96.8860	81.7025	18.5727	380.1527	212.8423
6132	96.8860	53.3600	13.6323	167.6961	70.3314
10405	96.8273	15.2300	4.7907	90.4449	54.9550
9889	96.8273	28.7825	17.4669	436.8089	323.8168
11527	96.7098	489.7525	47.1158	255.0325	93.7001
10087	96.6510	78.2175	22.5608	288.1711	134.0266
4048	96.6510	968.9800	150.0888	295.6678	281.2009
19555	96.6510	95.2925	23.3038	384.1164	246.9061
15088	96.5922	306.1175	14.4124	211.8172	57.0915
5355	96.4747	244.9925	83.8839	1111.7845	519.4556
7469	96.4160	289.0425	18.5822	182.3555	50.1720
18909	96.4160	67.0000	21.8881	366.3462	198.4114
23596	96.3572	142.7000	11.5073	309.1455	134.7287
6297	96.3572	23.1975	7.5403	113.3091	59.4780
18960	96.3572	157.0800	17.8444	85.9608	30.1910
22071	96.3572	497.6825	35.5300	318.1904	89.1195
16865	96.2397	148.9400	81.9491	42.5946	53.8348
3917	96.2397	124.3050	54.8541	872.7054	517.3530
5833	96.2397	21.3850	4.8739	70.9574	34.5682
9211	96.1810	428.6250	35.1482	240.7218	79.5025
230	96.1810	144.1875	68.0681	687.0822	329.6134
3275	96.1222	344.2475	46.2131	178.5436	64.1321
13454	96.0635	120.2725	1.9266	145.1381	70.3023
18524	96.0635	282.9300	36.4388	765.5830	330.9474

TABLE 5VV: TETRACYCLINE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22220	99.8822	130.2357	32.8210	1445.9045	601.1125
426	99.8233	650.8950	61.9680	2603.6254	1300.8329
25069	99.7055	59.7605	6.7558	328.1781	206.1853
22219	99.7055	57.4918	15.4888	607.9568	269.2391
11755	99.5289	94.7985	12.2666	687.8772	300.4762
17805	99.5289	109.8838	12.3824	660.3324	268.5619
18989	99.3522	264.1868	70.4021	1450.4210	692.7450
670	99.1755	89.7402	3.4178	314.1095	122.9996
111	99.1755	1098.6105	76.1980	2877.0175	972.7216
25326	99.1166	833.1158	60.2859	2203.3598	682.9501
1869	99.0577	17.0427	15.8625	706.6066	392.2191
17693	99.0577	37.9072	6.7904	159.1182	85.5182
2555	98.9988	885.8615	99.9609	298.3111	127.4290
1508	98.9988	55.6155	5.4910	268.4006	122.9072
17227	98.9988	554.2655	48.8557	1281.2006	335.2169
1798	98.9988	283.2140	18.6117	1204.9075	659.5455
20819	98.9988	352.9500	24.5643	196.9752	40.8490
1247	98.9988	10.9497	3.4864	130.5799	108.6180
12606	98.9399	27.9170	11.2107	154.5609	76.4092
650	98.8221	35.0092	5.8946	159.8486	97.3237
14347	98.8221	188.9633	41.5250	886.6096	339.4117
25725	98.8221	3.4782	7.8049	93.0011	57.0826
20914	98.7633	-11.8792	7.2966	196.9603	186.1485
14346	98.7044	114.9373	43.4066	730.6620	317.5564
427	98.7044	419.5060	58.4040	1719.4579	921.5010
15851	98.6455	-16.4322	7.5686	220.8996	199.0984
23878	98.6455	81.4322	12.4518	20.1193	13.7522
2384	98.5866	22.0222	7.8421	288.0671	165.2525
20449	98.5866	229.3185	36.9347	46.5622	64.3427
1868	98.5866	-33.0308	16.4110	462.3777	323.2941
15661	98.5277	75.0573	3.7719	29.4442	26.2667
108	98.5277	539.4930	93.2670	1577.0199	611.0621
23961	98.4688	54.0058	13.4213	274.8921	121.3571
17158	98.4688	344.2177	90.5350	55.4516	48.0548
1557	98.4688	82.0980	16.6927	16.2204	13.4258
24710	98.4688	35.3535	3.3552	12.7569	10.1919
4748	98.4099	23.9230	6.0186	452.8025	360.1318
20650	98.4099	39.6082	12.3496	608.8443	404.3899
2554	98.4099	258.6987	28.3426	98.8093	37.4506
2010	98.4099	1001.3297	112.8231	2948.4610	1102.2065
402	98.3510	106.3513	32.7679	1081.0045	527.9927
20448	98.2921	185.4335	33.8649	50.3866	52.3858
20649	98.2921	24.4962	7.6021	348.5719	312.4400
17226	98.2921	335.3992	48.5553	848.0185	245.6111
46	98.2332	348.7580	76.7924	44.2338	60.4829
1379	98.2332	114.4102	10.1136	45.8880	22.4754
15028	98.1743	89.1578	13.6718	337.4507	149.0594
4314	98.1743	34.8027	8.6066	164.2589	83.4566
23660	98.1743	382.8345	59.1975	1001.2748	276.6513
21981	98.1743	135.4675	11.8705	278.9571	80.2845
25024	98.1743	53.5670	12.5091	240.1519	113.8262
109	98.1743	1319.0768	267.1436	3523.5456	1217.4647

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TABLE 5VV: TETRACYCLINE					
Timepoint(s): 24 hrs					
Attorney Docket No. 44921-5113WO					
Document No. 1926271.2					
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1958	98.1743	484.0167	93.6646	1767.0414	837.9446
19825	98.1743	-3.0148	4.8999	73.1542	55.3781
563	98.1154	88.0498	25.3677	582.6894	352.5511
20699	98.1154	883.0995	74.7613	2095.1144	658.3075
19040	98.1154	1614.2233	135.9921	833.6524	301.9434
20700	98.0565	858.7620	165.7691	3043.6708	1088.4985
20586	98.0565	17.5170	5.0878	142.3199	68.8434
6013	98.0565	109.5312	19.2312	529.2239	268.8443
4500	97.9976	114.9168	17.5881	33.8773	24.9926
23871	97.9976	152.8840	11.0974	63.5193	48.3812
20193	97.9976	27.8908	11.5545	4.3460	9.1150
11982	97.9388	380.2637	31.6857	188.9791	67.0454
14633	97.9388	81.9903	27.2755	492.5833	203.3008
7176	97.9388	708.8310	66.9646	303.2429	130.6142
1630	97.9388	150.9457	40.3850	34.4146	23.1995
4524	97.9388	179.6277	23.2129	70.6273	29.5533
16947	97.8799	75.1085	17.9450	347.5389	138.4236
16139	97.8799	119.7263	13.7273	60.2505	20.2961
208	97.8210	51.2432	23.9904	-0.5958	14.4755
14003	97.8210	142.4053	16.9175	339.3119	115.2720
5384	97.7621	233.7298	21.8130	89.2259	54.6462
1530	97.7621	61.2343	8.0841	16.7825	15.5639
20698	97.7032	12.7432	14.0550	376.0902	209.1290
20421	97.7032	91.6033	6.8143	50.8633	14.5796
1546	97.7032	31.8850	4.6470	108.3611	45.3738
20464	97.6443	9.1067	9.3889	257.8579	161.5436
17956	97.6443	196.9510	12.7663	121.5488	30.4987
14250	97.6443	224.2627	38.3882	64.5760	71.1119
16780	97.6443	59.5710	9.9627	175.3925	96.2208
635	97.6443	434.6077	103.0363	1013.6628	335.6759
1045	97.5265	183.0585	27.7750	83.9520	26.0339
1496	97.5265	248.0738	16.3341	124.0036	50.2713
1495	97.5265	261.3765	20.5226	134.0611	44.1712
25325	97.5265	103.0088	58.7126	982.4467	540.4443
5545	97.5265	106.2063	34.0193	545.3574	272.0406
18108	97.5265	1114.4816	60.4702	706.9467	178.5776
17554	97.5265	55.7022	28.5974	432.6213	269.6811
1306	97.4676	319.0967	35.1856	150.9187	57.1578
18553	97.4087	401.4467	77.7704	115.0935	93.1857
354	97.4087	1348.2967	170.0670	507.2905	315.8262
18025	97.4087	301.4763	21.6092	159.3709	51.6019
591	97.2909	79.1402	11.1175	37.0543	16.7910
358	97.2909	268.6412	35.3284	735.0727	316.1771
11949	97.2909	75.8527	10.5648	37.8494	14.4560
16930	97.2320	118.6493	34.5328	615.1314	335.2689
20587	97.2320	69.2143	11.6037	253.1044	122.8018
20746	97.2320	1214.3198	147.4005	560.8529	304.4936
16417	97.2320	296.5592	25.6698	164.4356	50.7303
2888	99.9411	91.2345	20.6841	1132.1502	614.7726
9192	99.7644	189.7572	21.0927	850.9952	444.2027
17783	99.6466	1164.7637	163.8139	329.4144	126.6891
576	99.3522	146.2512	19.4715	986.5187	555.7285

TABLE 5VV: TETRACYCLINE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23125	99.3522	173.6328	23.2626	665.5830	458.4881
2748	99.2933	545.7582	57.7599	247.3496	64.9539
5183	99.2933	374.3472	35.3905	160.5031	42.0004
24192	99.1755	232.7790	30.5090	906.1658	490.8575
17248	99.1166	1203.8833	61.7037	2134.6513	439.6190
24171	99.1166	87.8897	10.3926	22.1274	15.2780
7740	98.8221	426.5643	35.4740	181.2524	60.2914
3619	98.8221	206.1040	20.5902	93.7269	31.8421
8436	98.8221	209.4725	53.5400	1730.1021	788.7065
14007	98.7633	8.7375	1.4492	88.9432	56.7708
11871	98.7633	444.2603	140.9039	-128.6876	96.3329
21796	98.7633	525.4250	75.8985	195.4612	78.6222
22079	98.7044	896.0612	95.7567	2418.5863	759.1488
2826	98.7044	234.0377	47.9011	56.3216	32.7686
11873	98.6455	391.8642	63.3514	38.8149	48.0912
16802	98.6455	298.7085	28.7428	1128.1505	493.7951
6252	98.6455	901.8658	59.6926	423.6346	146.0404
4355	98.6455	693.1297	87.8490	311.9896	114.6693
24229	98.6455	285.9425	59.9059	1974.7371	1245.0863
8057	98.5277	61.7975	7.0802	14.1644	16.0230
23261	98.5277	35.5630	6.3794	396.7548	235.4205
23596	98.4688	26.1683	31.8479	310.3611	133.2357
19416	98.4099	161.0380	8.8053	78.6427	35.7870
7785	98.4099	72.3907	16.3907	359.4068	146.5049
16680	98.4099	454.9258	23.3072	208.5032	99.4246
6455	98.3510	625.5480	48.9130	1552.5103	528.2951
21765	98.2921	278.4548	28.8329	116.6032	48.9056
10984	98.2332	26.2300	2.6612	177.4641	111.4620
16752	98.2332	-20.1665	2.3192	75.0052	84.6931
23813	98.2332	149.1473	16.5844	863.5449	732.5011
11180	98.1743	348.3692	50.9287	121.9737	69.8012
15427	98.1743	168.3082	18.9644	75.7006	26.8842
12479	98.1743	535.5142	45.7034	1668.2774	811.8782
22770	98.1743	1616.3478	69.8696	828.8762	317.1736
15258	98.1743	865.0300	138.3186	247.9708	164.3805
2250	98.1743	2748.5586	132.7849	1640.3847	677.5692
16058	98.1154	603.6760	67.6716	241.6086	105.5544
17901	98.1154	704.3805	58.8104	410.2222	102.7722
2486	98.1154	532.9188	53.1925	290.3420	64.2899

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TABLE 5WW: VALPROATE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 6, 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3444	99.8821	144.5800	61.7450	14.3904	25.5938
22150	99.6462	129.5343	17.2392	45.4124	13.8346
5082	99.3514	173.2057	38.9008	37.1035	17.7117
1844	99.2335	251.8586	31.3296	113.3852	26.1181
21084	98.9387	96.1271	31.2456	23.8881	9.8758
17601	98.7618	153.7871	35.2416	48.4060	18.2639
24705	98.6439	14.4543	1.9279	49.6120	18.4100
17257	98.5849	162.1329	75.7169	32.0815	20.5496
16025	98.5849	479.2114	166.1093	121.2432	50.6633
11827	98.2901	99.9457	16.6275	38.4296	14.3028
16661	98.2901	337.3300	65.6463	157.1480	35.6664
21083	98.1722	110.7557	44.7945	32.0547	12.6772
25137	98.1132	41.3043	6.6234	14.3314	7.6367
1412	98.1132	59.5886	23.4333	11.6248	11.3912
9082	98.0542	113.0314	26.9057	38.9540	13.3140
1444	97.9953	86.5629	19.7541	42.1914	11.8372
16026	97.9363	677.2157	224.1748	162.7448	77.0733
22149	97.9363	42.8643	5.5124	10.7996	12.4657
18442	97.8774	144.8657	53.1017	48.3157	16.3080
15487	97.8774	211.1643	54.4853	91.7875	29.6761
18495	97.8774	88.4714	33.7047	18.9872	10.8983
6490	97.7005	273.2114	26.5179	150.3017	39.0434
15857	97.7005	336.1300	93.8056	170.4754	42.6496
17299	97.6415	128.4929	28.1546	59.5979	19.6092
15489	97.2877	116.0300	24.5272	58.8534	15.9195
1045	97.1108	157.4086	15.2687	84.0468	26.5790
20801	96.9340	445.1743	40.9959	222.3695	102.5993
20778	96.9340	129.4214	28.8279	65.4492	17.2747
23486	96.9340	721.8771	233.3117	335.6000	84.3057
11973	96.8160	101.9414	17.4343	40.5012	19.3775
18728	96.7571	289.1129	86.6215	163.1031	36.1369
21372	96.6981	99.2914	25.9457	35.3983	25.3617
15073	96.6981	31.4900	13.0998	-5.8259	13.2277
16082	96.6981	73.1986	33.0991	24.8216	12.8609
25483	96.6392	60.6914	11.7255	29.4802	9.3066
16675	96.5802	54.1743	15.4843	15.7376	12.9291
20090	96.5212	330.9629	43.7027	191.5581	48.0380
4714	96.4623	260.3571	48.3682	103.9676	52.5834
2465	96.3443	53.8471	20.3744	20.7293	15.1872
17541	96.1675	1125.0386	323.2534	2958.7258	1067.3746
3446	95.9316	78.0443	13.0209	37.5914	15.6372
1683	95.6368	39.3357	6.2439	19.1940	8.8892
1131	95.5778	254.6414	26.2846	149.5357	41.9923
11252	95.5778	63.7243	10.4814	34.0662	12.1603
19013	95.3420	49.4657	6.8717	21.7663	11.8382
8984	95.2241	572.6114	91.7536	377.9046	72.8978
3548	95.1651	329.5600	41.3407	214.5087	48.3598
1660	94.8703	23.9386	3.0945	25.6363	33.8447
2515	94.7524	404.2214	64.3700	219.0737	88.4812
24351	94.7524	57.2800	19.8489	15.9145	17.3715
400	94.5755	70.9786	20.6898	28.4251	29.8555
1791	94.5165	111.2386	24.5355	57.1100	19.9846



TABLE 5WW: VALPROATE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 6, 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18731	94.5165	229.5086	37.0794	148.7107	35.7388
19102	94.5165	63.1600	15.5854	28.4732	13.5488
15618	94.3396	546.1971	115.7018	264.1710	122.3836
1588	93.8090	446.1114	22.2354	450.3335	266.0797
1424	93.6321	215.5086	44.8928	113.1477	49.7158
18373	93.3373	234.9671	14.5044	170.1833	47.2239
22865	93.1604	113.6229	19.5127	64.1164	23.1223
14934	92.8066	165.8843	24.7174	112.4354	24.6631
3465	92.5118	115.0886	10.3031	68.5267	32.4511
17336	92.4528	37.6600	8.0302	19.5153	12.8488
1460	92.4528	897.1871	333.3809	2123.7015	699.9205
17698	92.0906	74.5571	20.7492	4.5155	37.4701
19543	91.7369	126.4571	82.5000	35.1164	13.0685
7947	91.6189	280.4857	98.7157	101.4455	29.5253
1501	91.5684	1199.9071	360.8232	2218.8179	561.7895
1580	91.5010	172.3186	76.4827	41.5127	19.9910
23710	91.4505	47.6871	8.1489	26.5727	12.9137
1579	91.2652	112.1100	64.4929	23.2409	11.1396
17613	91.0377	354.6400	78.7326	523.2556	96.5443
17258	91.0293	231.7671	99.3995	93.0036	26.4731
25907	90.9198	14.6414	13.4398	80.5719	49.6182
11975	90.8524	79.7114	46.6976	7.1271	17.4758
23344	90.8019	564.3243	69.6849	383.1436	111.6698
23485	90.7935	997.9843	325.8404	444.3934	122.3742
353	90.6840	645.5929	116.1683	411.0646	248.0672
548	90.6250	12.2314	13.5403	173.2888	193.3287
14346	90.6250	341.3429	86.1887	729.5192	319.9239
15613	90.5660	757.7586	82.5964	675.1011	519.0905
22919	90.5576	483.1743	137.0012	245.5606	56.7106
23465	90.5576	254.4814	93.6693	92.1306	31.4577
5257	90.5071	12.3171	7.5749	35.7259	14.5811
11296	90.4987	255.7043	82.7440	113.4386	36.3196
15911	90.4397	295.2443	102.0899	152.2922	33.0392
1822	90.3807	130.5514	56.3598	54.4118	16.4748
1841	90.3218	195.9600	51.1706	67.5316	25.4668
15437	90.2038	54.5871	28.2278	14.8786	12.5272
20977	90.2038	92.4729	34.4918	42.1871	14.9379
21064	90.2038	311.6886	101.5980	161.0000	41.0390
21843	90.0943	65.8486	25.0019	125.5698	34.9879
21062	90.0859	109.9843	49.6134	39.6977	19.5815
8139	89.9764	22.6243	7.4665	6.9491	10.2412
18419	89.9764	449.3257	41.0824	640.1130	149.2786
18887	89.9680	244.4986	59.9534	128.4661	32.3446
399	89.9680	86.9414	29.8870	32.2150	13.1600
4312	89.8585	26.4400	13.1713	137.9983	142.6243
935	89.7995	43.0029	11.7528	76.6196	22.0380
4308	89.7911	44.0014	11.8655	11.3064	9.3377
463	89.7911	85.6500	15.7670	40.9034	12.9185
6254	99.7642	155.7414	41.6559	-1.9149	34.7296
21085	99.5873	192.4657	42.8307	56.8818	18.2115
4179	99.4693	780.1514	173.8288	253.9662	66.1519
8390	98.9976	249.4643	61.8875	95.0359	30.3142

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TABLE 5WW: VALPROATE			Attorney Docket No. 44921-5113WO		
Timepoint(s): 6, 24 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16673	98.9387	210.3014	57.7937	59.5914	17.7578
8959	98.8797	132.6314	43.2777	23.8863	22.4768
6830	98.8797	31.0014	14.7398	-27.0187	20.4576
6988	98.8208	562.5943	168.8704	68.2642	125.3950
19052	98.7618	549.9043	50.8929	280.8604	60.7070
9607	98.7618	308.1257	84.6105	87.2067	28.0188
6631	98.7618	172.5014	38.2802	56.4441	22.0745
23106	98.7028	83.8700	18.0902	24.0835	12.4770
14800	98.7028	56.2229	14.1362	6.3023	17.2849
4475	98.6439	314.8357	53.1205	140.9574	35.6094
23811	98.6439	552.4300	132.2849	243.5353	60.3769
9806	98.5849	200.1071	61.2464	52.7609	23.5967
6288	98.5849	312.9400	106.5304	46.9712	70.3151
2669	98.5849	98.2800	12.9236	31.2787	25.3674
18961	98.5849	1038.0800	525.5580	420.0867	107.6491
149	98.5259	160.0886	28.8676	71.6011	23.9037
4987	98.5259	432.9086	102.3598	166.7119	38.0299
11502	98.4670	396.4757	85.6763	890.3652	194.6821
18191	98.4670	244.8714	21.4191	148.9512	27.8077
5381	98.4080	334.1571	20.7390	186.6949	46.8460
7117	98.4080	188.6800	38.7207	85.3973	22.5234
19271	98.3491	537.7257	36.6904	278.0635	94.5354
18778	98.2901	47.4757	9.3477	5.6255	11.9304
22204	98.2311	168.5257	29.8838	52.5852	26.0325
3464	98.2311	340.9243	210.1778	86.0669	32.5824
19595	98.1722	43.8500	29.2789	-4.9781	10.2670
24131	98.1722	55.9014	23.5310	-50.6076	42.0976
3720	98.1132	567.1786	270.8642	273.5363	52.6255
3584	97.9953	111.1729	23.0878	37.8885	22.2233
11813	97.9953	124.5914	43.4092	31.4443	15.9876
22106	97.9953	270.0600	53.7528	133.7708	35.2067
17859	97.9953	129.1657	34.4126	39.7049	18.5891
23099	97.9953	763.7171	299.6457	250.0823	99.0060
13424	97.9363	250.1071	39.8716	108.6408	39.6640
6974	97.8774	593.1471	90.7690	255.4031	86.0184
13911	97.8774	175.5143	56.7375	77.0473	23.9356
11331	97.8774	416.2143	129.9514	183.3316	42.7733
9294	97.8774	141.3800	29.7951	35.9573	37.6954
13501	97.8184	204.5129	78.5139	49.2592	25.1670
16879	97.8184	1692.1529	550.5139	790.1405	194.7542
13591	97.8184	218.2743	49.2799	104.8334	27.1579
23141	97.8184	658.4357	350.1177	269.3291	79.8860
22071	97.7594	657.7329	359.9602	316.2342	79.0731
5074	97.7005	213.1471	52.2225	70.3788	35.7884
8903	97.7005	42.3057	12.9917	2.9615	18.3033
4744	97.6415	178.2100	27.2838	76.4183	27.7668
9440	97.6415	411.2371	88.3828	203.4487	63.0305
2915	97.5825	232.8929	111.5077	129.0804	29.2902
8966	97.5825	479.0857	296.9397	193.0439	61.6170
6054	97.4057	91.4071	37.0309	17.4402	18.5831
18105	97.4057	190.7314	41.8946	72.6229	34.6599
14547	97.4057	347.0200	97.6072	114.9752	64.2502

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TABLE 5WW: VALPROATE				Attorney Docket No. 44921-5113WO	
Timepoint(s): 6, 24 hrs				Document No. 1926271.2	
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
4250	97.1698	181.7771	49.2702	73.5660	28.7053
8136	97.1698	251.4100	135.5546	97.9400	32.7582
17861	97.1108	142.1571	40.5336	53.4554	22.8540
3944	97.1108	504.8800	238.5928	327.1568	60.5498
21216	97.0519	64.5886	12.7326	25.5184	14.5233
6085	96.9929	460.4929	68.6186	191.6192	91.9653
6528	96.9929	192.2614	32.2417	383.4531	96.4171
2501	96.9340	343.3143	86.0400	146.9044	46.0380
10489	96.8750	18.1186	5.4779	68.7378	29.0330
18660	96.8160	241.8414	77.4971	71.2537	45.5412
21253	96.8160	553.3471	121.4654	259.8817	71.3944
14275	96.7571	220.9386	46.8331	123.4414	28.9585
24003	96.7571	297.6371	161.3781	140.4816	44.4433
21447	96.7571	265.6229	133.7574	152.4640	36.2267

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TABLE 5XX: Wy-14643			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16847	99.4125	1333.3450	2.3431	1542.0550	330.9283
15248	99.1774	152.6125	16.7475	33.0373	23.3117
15829	99.1187	173.5325	9.6851	27.6526	78.0679
14595	99.0599	326.2025	17.7958	109.5426	98.7261
4290	99.0012	299.8425	12.4772	128.0565	76.9802
21917	98.9424	42.1025	0.2545	26.9101	12.1660
11296	98.9424	168.9225	2.4925	114.3480	38.9118
9931	98.8249	168.6000	0.6744	199.7694	104.8456
10071	98.7662	149.9150	8.0658	43.6932	35.0172
18957	98.7662	191.7350	7.0560	116.0683	77.5849
16354	98.5311	-120.5300	13.7552	69.6771	92.9085
402	98.5311	608.2725	10.9491	1076.3547	532.6898
20149	98.5311	186.2400	25.9383	44.7034	207.5376
8592	98.4724	228.6500	3.0313	153.0155	49.8198
26000	98.4136	103.3150	1.1135	72.5787	37.0846
287	98.4136	33.5800	0.3569	20.6758	17.7124
1255	98.2961	93.5250	8.5551	18.7482	27.0081
2008	98.2961	64.0225	8.1607	13.8716	43.6814
15247	98.1199	362.8625	43.7127	86.1034	65.0140
15123	98.0611	270.4800	34.6748	178.1626	253.3036
18360	98.0024	33.4325	3.7502	95.6228	33.1329
21029	98.0024	77.4175	1.0390	65.5606	42.9484
20713	97.8848	290.2450	34.0678	132.3416	240.5429
20431	97.8848	207.0525	20.9517	114.4350	138.9264
25693	97.7673	85.9850	4.9693	38.6479	19.5145
17758	97.7673	85.8475	14.1070	55.9801	229.3914
17958	97.7086	125.8000	3.4578	65.6493	45.3712
1704	97.5911	54.0775	4.7675	27.6175	48.6715
15421	97.5323	302.0475	4.8608	420.6746	91.2310
923	97.4148	301.5250	6.1723	193.2205	111.0874
20429	97.4148	315.0925	16.9460	232.0102	163.1843
23698	97.4148	390.6350	48.8334	200.1831	349.5770
8008	97.3561	39.8075	2.4671	12.9123	16.0824
15371	97.3561	516.0800	3.3923	536.4018	122.2232
25777	97.2973	1783.6825	11.9118	1750.5074	569.0072
1857	97.1798	61.9975	25.9284	28.3336	191.9301
18083	97.1210	81.5350	9.5303	44.8483	64.7282
2006	97.1210	65.4125	5.9060	20.4439	38.3937
16148	97.1210	814.0925	57.1602	485.8379	363.5008
8829	97.0623	849.6275	7.0831	778.8023	229.4941
20715	97.0623	144.7375	16.3037	85.9585	154.1015
20703	97.0623	121.3700	13.0113	43.3561	55.1171
23489	97.0035	79.5875	1.625	34.7983	29.1296
8269	97.0035	386.8150	36.5059	335.8389	372.8364
16179	96.9448	38.0125	0.8486	30.9613	16.0077
1963	96.8860	205.4875	15.7807	114.2191	38.1923
3879	96.8860	1313.0500	12.4122	1444.3125	434.8641
17891	96.8860	74.3550	1.7102	54.0240	19.7167
1556	96.8273	160.2600	1.8368	126.6512	36.5046
25052	96.8273	140.1075	2.8854	181.7533	161.1909
13358	96.8273	52.2600	5.1075	23.6220	16.6352
19256	96.8273	39.7700	2.2122	28.5872	27.1895

TABLE 5XX: Wy-14643			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23782	96.7098	156.9925	1.6579	190.0308	47.6908
16039	96.7098	653.1025	9.1576	714.3246	207.4366
4714	96.7098	101.8550	2.2984	105.2640	54.5111
8384	96.7098	68.5725	6.6536	63.2743	76.3445
18293	96.6510	654.4225	7.2132	653.2370	378.3348
9952	96.6510	1125.0825	57.4954	647.2010	332.2226
18667	96.5922	44.5700	0.5690	39.1859	18.9059
399	96.5922	53.3950	2.0466	32.5656	14.1879
25325	96.5335	621.0625	15.2235	977.9448	544.2764
20433	96.4747	182.9700	62.2857	36.5422	43.3625
20214	96.4160	56.7450	12.3540	3.3237	22.2773
5283	96.4160	91.3425	3.0335	58.8512	22.3649
6376	96.4160	83.5725	8.5465	45.6380	49.8197
1261	96.3572	185.3600	16.7912	87.3649	37.3470
23540	96.3572	197.8125	5.8659	132.5313	37.3581
17661	96.3572	380.7200	5.2901	309.3593	83.6555
15312	96.3572	189.0050	6.3907	220.2300	126.6273
8268	96.3572	462.1450	59.5656	385.7511	495.2149
13479	96.2985	108.1850	2.5245	165.4475	58.9929
16661	96.2985	159.9475	1.6178	158.6169	39.5370
21488	96.2985	17.7475	1.8944	42.0741	17.5997
16807	96.2985	1471.5850	105.9415	867.1132	713.2997
3453	96.2397	163.8275	1.2605	150.3854	38.0379
23302	96.2397	149.9775	7.9737	81.2128	39.4239
1175	96.2397	143.9000	21.4014	41.9411	75.6626
1977	96.2397	415.0650	13.2251	287.0983	131.3372
17158	96.2397	95.8650	4.2144	57.2976	54.1248
6598	96.1810	253.1075	9.8371	122.3600	73.7472
5748	96.1810	702.4450	6.1196	716.8188	151.1583
7602	96.1810	413.5775	4.7979	350.4778	100.6908
1991	96.1810	52.7950	2.6674	28.9671	15.4093
1858	96.1810	74.1250	16.0843	43.8919	209.3255
1262	96.1222	105.2225	13.0050	42.2622	23.9657
14016	96.1222	78.8825	4.0273	146.7053	60.0718
19018	96.1222	274.4450	10.4049	200.0064	102.0604
548	96.1222	270.6425	15.5019	171.5064	193.4176
21575	96.0635	394.3725	4.1716	345.3200	89.1984
1372	96.0635	26.2400	4.0653	8.2285	7.8665
8386	96.0635	229.0900	29.5913	190.6004	196.0708
4242	96.0635	86.1225	5.4365	58.7996	38.0990
1394	96.0635	31.0700	0.7409	25.0868	11.1810
25604	96.0047	27.0575	0.4396	25.1778	11.3431
20868	96.0047	52.5075	7.0137	15.4277	19.5018
25476	96.0047	35.1525	2.8213	13.4833	14.8648
10624	95.9459	349.5150	68.7765	96.4763	94.6633
19512	95.9459	38.7675	20.5495	-9.3937	17.0421
18501	95.9459	320.3400	10.6082	178.0435	108.2443
322	95.9459	223.5650	13.7930	168.4034	179.9025
21851	98.5899	324.1950	3.6777	174.4675	94.7797
20341	98.5311	94.4825	3.2952	45.2391	20.9064
18696	98.4136	162.0600	2.3946	235.7418	59.0384
11215	98.3549	-152.9600	30.0345	132.7776	84.4442

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TABLE 5XX: Wy-14643			Attorney Docket No. 44921-5113WO		
Timepoint(s): 3 hrs			Document No. 1926271.2		
GLGC ID NO.	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3256	98.3549	1659.3700	14.2156	1838.7773	623.0337
13975	98.3549	416.7200	6.7543	255.2859	79.3622
14081	98.2374	145.0475	8.4275	55.1742	66.6242
13353	98.0611	101.5150	11.6673	231.5008	52.3472
7714	98.0611	225.2600	5.0234	148.5496	47.5103
6634	98.0611	620.5375	16.6118	389.3899	112.6122
2708	98.0024	586.7850	10.2691	423.5732	133.0198
18088	97.9436	327.2000	8.0398	173.4491	134.5675
11354	97.9436	506.7975	21.4223	314.5744	270.4788
22574	97.9436	81.2075	8.5952	22.9443	21.4221
17715	97.8261	130.5600	1.5368	147.2899	98.8225
2568	97.8261	15.7850	10.8130	164.2118	90.9813
23125	97.7673	645.5000	15.9148	662.2089	459.7979
23725	97.7673	1004.4725	42.3701	631.7577	161.5521
3941	97.7673	117.1400	1.9950	115.5958	87.1463
19993	97.6498	306.8600	3.3349	319.5405	118.3228
11963	97.6498	83.0950	11.2757	19.0023	29.2775
9806	97.5911	79.2650	1.9188	53.8484	27.4883
3367	97.5911	1188.3625	10.8754	1556.1042	446.6942
5602	97.5323	160.4600	5.8640	119.0199	154.7447
16915	97.4736	1062.8075	142.4367	375.2551	620.7577
3523	97.4148	261.6100	2.4946	265.8605	125.2159
2331	97.3561	1040.9625	83.9986	288.2437	367.0784
4491	97.2973	218.1725	6.1904	137.1534	45.7487
17407	97.2385	1190.0400	14.4779	1290.5723	344.2359
4368	97.1210	400.2775	5.4266	511.9276	133.4210
9180	97.1210	372.5625	13.7830	223.1236	70.8096
10960	97.1210	886.6050	11.8630	714.4602	134.1032
23152	97.0623	1749.2775	97.7526	1032.3974	283.1970
17027	97.0623	1301.6000	67.6087	902.0808	639.7305
6604	97.0035	64.7400	1.6977	39.8711	18.3146
21354	97.0035	742.6300	37.5706	560.9094	527.6779
19438	96.9448	112.1375	22.8580	36.2113	24.0275
2841	96.9448	132.7950	6.5971	77.3345	62.9878
6473	96.8860	87.3200	5.8007	63.1210	68.6514
19762	96.8860	53.3625	4.5965	15.5716	26.4597
2729	96.8273	328.7300	5.9956	510.6355	200.9746
11698	96.7685	86.5700	7.8327	157.8403	44.8530
6094	96.7098	129.0725	21.1359	49.6278	26.4543
16705	96.7098	22.9075	0.5647	25.9405	20.1929

Table 6- Laboratory protocols for administration of toxins to hepatocyte cultures and  
Results of AlamarBlue® cell viability assays

Toxin	3 hours		6 hours		24 hours	
	low dose 6uM	high dose 60uM	low dose 6uM	high dose 60uM	low dose 6uM	high dose 60uM
<b>Amiodarone</b> , ICN cat. no. 15353583 % viability by AlamarBlue test					~100	~80-85
<b>Carbamazepine</b> , Sigma cat. no. C-8981 % viability by AlamarBlue test	0.01mM	1mM	0.01mM	1mM	0.01mM	1mM
					~100	~90
<b>Chlorpromazine</b> , Sigma cat. no. C-8138 % viability by AlamarBlue test	3uM	30uM	3uM	30uM	3uM	30uM
					~100	~75
<b>CI-1000</b> % viability by AlamarBlue test	25uM	250uM	25uM	250uM	25uM	250uM
					~90	~75
<b>Cyproterone acetate</b> Sigma cat. no. C-3412 % viability by AlamarBlue test	40uM	400uM	40uM	400uM	40uM	400uM
					~100	~65-70
<b>Diffunisal</b> , Sigma cat. no. D-3281 % viability by AlamarBlue test	30uM	300uM	30uM	300uM	30uM	300uM
					~100	~85-90
<b>DMN</b> , Sigma cat. no. N-7756 % viability by AlamarBlue test	1mM	100mM	1mM	100mM	1mM	100mM
					~100	~80-85
<b>Gemfibrozil</b> , Sigma cat. no. G-9518 % viability by AlamarBlue test	0.3mM	3mM	0.3mM	3mM	0.3mM	3mM
					~100	~50
<b>Imipramine</b> , Sigma cat. no. I-7379 % viability by AlamarBlue test	5uM	50uM	5uM	50uM	5uM	50uM
					~100	~85-90

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Toxin	3 hours		6 hours		24 hours	
	low dose	high dose	low dose	high dose	low dose	high dose
<b>Phenobarbital,</b> Sigma cat. no. P-5178 % viability by AlamarBlue test	0.8mM	8mM	0.8mM	8mM	0.8mM	8mM
					~100	>95
<b>Tamoxifen,</b> Sigma cat. no. T-9262 % viability by AlamarBlue test	4uM	40uM	4uM	40uM	4uM	40uM
					~100	~45
<b>Tetracycline,</b> Sigma cat. no. T-4062 % viability by AlamarBlue test	0.1mM	1mM	0.1mM	1mM	0.1mM	1mM
					~100	~85-90
<b>Wy-14643</b> Cayman Chem cat. no. 70730 % viability by AlamarBlue test	10uM	100uM	10uM	100uM	10uM	100uM
					~100	~90
<b>ANIT,</b> Sigma cat. no. N-9883 % viability by AlamarBlue test	25uM	250uM	25uM	250uM	25uM	250uM
					~100	~60
<b>Acetaminophen,</b> Sigma cat. no. A-7085 % viability by AlamarBlue test	1mM	10mM	1mM	10mM	1mM	10mM
					~100	~90
<b>AY-25329</b> % viability by AlamarBlue test	5uM	50uM	5uM	50uM	5uM	50uM
					~100	~90
<b>CCl<sub>4</sub>, Aldrich</b> cat. no. 31996-1 % viability by AlamarBlue test	0.1mM	10mM	0.1mM	10mM	0.1mM	10mM
					~100	~80-85
<b>Clofibrate,</b> Sigma cat. no. C-6643 % viability by AlamarBlue test	0.5mM	5mM	0.5mM	5mM	0.5mM	5mM
					~100	~80-85
<b>Diclofenac,</b> Sigma cat. no. D-6899 % viability by AlamarBlue test	55uM	550uM	55uM	550uM	55uM	550uM
					~100	~70



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Toxin	3 hours		6 hours		24 hours	
	low dose	high dose	low dose	high dose	low dose	high dose
17 $\alpha$ -ethinylestradiol, Sigma cat. no. E-4876 % viability by AlamarBlue test	10uM	100uM	10uM	100uM	10uM	100uM
					~100	~80
Hydrazine, Sigma cat. no. H-0883 % viability by AlamarBlue test	0.1mM	1mM	0.1mM	1mM	0.1mM	1mM
					~90-95	~80-85
Indomethacin, Sigma cat. no. I-8280 % viability by AlamarBlue test	0.1 mM	1 mM	0.1 mM	1 mM	0.1 mM	1 mM
					~100	~85-90
Lipopolysaccharide, Sigma cat. no. L-8274 % viability by AlamarBlue test	10ug/ml	100ug/ml	10ug/ml	100ug/ml	10ug/ml	100ug/ml
					~100	~100
Lovastatin, Merck, 40 mg tablets % viability by AlamarBlue test	0.1mM	1mM	0.1mM	1mM	0.1mM	1mM
					~100	~100
Methotrexate, Sigma cat. no. M-9929 % viability by AlamarBlue test	1mM	10mM	1mM	10mM	1mM	10mM
					~100	~90
Tacrine, Sigma cat. no. A-3773 % viability by AlamarBlue test	25uM	250uM	25uM	250uM	25uM	250uM
					~100	~75-80
Valproate, Sigma cat. no. P-4543 % viability by AlamarBlue test	0.4mg/ml	4mg/ml	0.4mg/ml	4mg/ml	0.4mg/ml	4mg/ml
					~100	~95

Notes:

1. Each compound was dissolved in HIM cell culture medium (In Vitro Technologies) containing 0.2% DMSO (Sigma cat. no. D-5879).
2. The AlamarBlue assay was performed only at the 24-hr time point following exposure to the toxin of interest. A corresponding vehicle control (0.2% DMSO) sample was also isolated at 3, 6, and 24-hr time points for each toxin.

## WE CLAIM:

1. A method of determining whether a compound induces at least one toxic effect on a tissue or cell, comprising:
  - (a) preparing a gene expression profile of a tissue or cell sample exposed to said compound; and
  - (b) comparing the gene expression profile to a database comprising an adequate amount of the data or information of Tables 5A-5XX to determine whether the compound induces at least one toxic effect on the tissue or cell.
2. A method of claim 1, wherein the gene expression profile prepared from the tissue or cell sample comprises the level of expression for at least one gene.
3. A method of claim 2, wherein the level of expression is compared to a Tox Mean and/or Non-tox Mean value in Tables 5A-5XX.
4. A method of claim 3, wherein the level of expression is normalized prior to comparison.
5. A method of claim 1, wherein the database comprises substantially all of the data or information in Tables 5A-5XX.
6. A method of predicting at least one toxic effect of a compound, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 5A-5XX; wherein differential expression of the genes in Tables 5A-5XX is indicative of at least one toxic effect.
7. A method of predicting the progression of a toxic effect of a compound, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 5A-5XX; wherein differential expression of the genes in Tables 5A-5XX is indicative of toxicity progression.
8. A method of predicting the hepatotoxicity of a compound, comprising:

(a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 5A-5XX; wherein differential expression of the genes in Tables 5A-5XX is indicative of hepatotoxicity.

9. A method of identifying an agent that modulates the onset or progression of a toxic response, comprising:

- (a) exposing a cell to the agent and a known toxin; and
- (b) detecting the expression level of two or more genes from Tables 5A-5XX; wherein differential expression of the genes in Tables 5A-5XX is indicative of toxicity.

10. A method of predicting the cellular pathways that a compound modulates in a cell, comprising:

- (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 5A-5XX; wherein differential expression of the genes in Tables 5A-5XX is associated the modulation of at least one cellular pathway.

11. The method of any one of claims 6-10, wherein the expression levels of at least 3 genes are detected.

12. The method of any one of claims 6-10, wherein the expression levels of at least 5 genes are detected.

13. The method of any one of claims 6-10, wherein the expression levels of at least 10 genes are detected.

14. The method of any one of claims 6-10, wherein the expression levels of at least 50 genes are detected.

15. The method of any one of claims 6-10, wherein the expression levels of at least 100 genes are detected.

16. The method of any one of claims 6-10, wherein the expression levels of at least 500 genes are detected.

17. A method of any one of claims 6-10, wherein substantially all of the genes in Tables 5A-5XX are detected.
18. A method of claim 51, wherein all of the genes in at least one of Tables 5A-5XX are detected.
19. A method of any one of claims 6-10, wherein the compound exposure is *in vitro*.
20. A method of claim 19, wherein the cell sample comprises rat hepatocytes.
21. A method of any one of claims 6-10, wherein the level of expression is detected by an amplification or hybridization assay.
22. A method of claim 21, wherein the amplification assay is quantitative or semi-quantitative PCR.
23. A method of claim 21, wherein the hybridization assay is selected from the group consisting of Northern blot, dot or slot blot, nuclease protection and microarray assays.
24. The method of any one of claims 6-10, wherein the detected level of expression is compared to that found in cells exposed to a known toxin.
25. The method of claim 24, wherein the toxin is selected from the group consisting of amiodarone, alpha-naphthylisothiocyanate (ANIT), acetaminophen (APAP), AY-25329, carbamazepine, carbon tetrachloride, chlorpromazine, CI-1000, clofibrate, cyproterone acetate (CPA), diclofenac, diflunisal, dimethylnitrosamine (DMN), 17 $\alpha$ -ethinylestradiol, gemfibrozil, hydrazine, imipramine, indomethacin, lipopolysaccharide, lovastatin, methotrexate, phenobarbital, tacrine, tamoxifen, tetracycline, valproate and Wy-14643.
26. The method of claim 25, wherein the level of expression is compared to that found in Tables 5A-5XX.
27. The method of claim 26, wherein the cells are primary hepatocytes.

28. The method of claim 27, wherein the cells are rat primary hepatocytes.
29. A method of claim 6 or 7, wherein the effect is selected from the group consisting of genotoxic and non-genotoxic carcinogenesis, cholestasis, direct-acting toxicity, hepatitis, liver enlargement, inflammation, necrosis, necrosis with steatosis, peroxisome proliferation, steatosis, and steatosis with hepatitis.
30. A method of claim 8, wherein the hepatotoxicity is associated with at least one liver disease pathology selected from the group consisting of genotoxic and non-genotoxic carcinogenesis, cholestasis, direct-acting toxicity, hepatitis, liver enlargement, inflammation, necrosis, necrosis with steatosis, peroxisome proliferation, steatosis, and steatosis with hepatitis.
31. A method of claim 10, wherein the cellular pathway is modulated by a toxin selected from the group consisting of amiodarone, alpha-naphthylisothiocyanate (ANIT), acetaminophen (APAP), AY-25329, carbamazepine, carbon tetrachloride, chlorpromazine, CI-1000, clofibrate, cyproterone acetate (CPA), diclofenac, diflunisal, dimethylnitrosamine (DMN), 17 $\alpha$ -ethinylestradiol, gemfibrozil, hydrazine, imipramine, indomethacin, lipopolysaccharide, lovastatin, methotrexate, phenobarbital, tacrine, tamoxifen, tetracycline, valproate and Wy-14643.
32. A set of at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 5A-5XX.
33. A set of probes according to claim 32, wherein the set comprises probes that hybridize to at least 3 genes.
34. A set of probes according to claim 32, wherein the set comprises probes that hybridize to at least 10 genes.
35. A set of probes according to claim 32, wherein the set comprises probes that hybridize to at least 100 genes.

36. A set of probes according to claim 32, wherein the set comprises probes that hybridize to at least 500 genes.
37. A set of probes according to any one of claims 32-36, wherein the probes are attached to a solid support.
38. A set of probes according to claim 37, wherein the solid support is selected from the group consisting of a membrane, a glass support and a silicon support.
39. A solid support comprising at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 5A-5XX.
40. A solid support of claim 39, wherein the solid support is an array comprising at least 10 different oligonucleotides in discrete locations per square centimeter.
41. A solid support of claim 39, wherein the array comprises at least about 100 different oligonucleotides in discrete locations per square centimeter.
42. A solid support of claim 39, wherein the array comprises at least about 1000 different oligonucleotides in discrete locations per square centimeter.
43. A solid support of claim 39, wherein the array comprises at least about 10,000 different oligonucleotides in discrete locations per square centimeter.
44. A computer system comprising:
- (a) a database containing information identifying the expression level in a tissue or cell sample exposed to a hepatotoxin of a set of genes comprising at least two genes in Tables 1-5XX; and
  - (b) a user interface to view the information.
45. The computer system of claim 44, wherein the cell samples are rat primary hepatocytes.

46. A computer system of claim 44, wherein the database further comprises sequence information for the genes.
47. A computer system of claim 44, wherein the database further comprises information identifying the expression level for the set of genes in the tissue or cell sample before exposure to a hepatotoxin.
48. A computer system of claim 44, wherein the database further comprises information identifying the expression level of the set of genes in a tissue or cell sample exposed to at least a second hepatotoxin.
49. A computer system of any of claims 44-48, further comprising records including descriptive information from an external database, which information correlates said genes to records in the external database.
50. A computer system of claim 49, wherein the external database is GenBank.
51. A method of using a computer system of any one of claims 44-48 to present information identifying the expression level in a tissue or cell of at least one gene in Tables 5A-5XX, comprising:
- (a) comparing the expression level of at least one gene in Tables 5A-5XX in a tissue or cell exposed to a test agent to the level of expression of the gene in the database.
52. A method of claim 51, wherein the expression levels of at least 2 genes are compared.
53. A method of claim 51, wherein the expression levels of at least 10 genes are compared.
54. A method of claim 51, wherein the expression levels of at least 100 genes are compared.
55. A method of claim 51, further comprising the step of displaying the level of expression of at least one gene in the tissue or cell sample compared to the expression level when exposed to a toxin.

56. A kit comprising at least one solid support of any one of claims 39-43 packaged with gene expression information for said genes.
57. A kit of claim 56, wherein the gene expression information comprises gene expression levels in a tissue or cell sample exposed to a hepatotoxin.
58. A kit of claim 57, wherein the gene expression information is in an electronic format.
59. A method of identifying an agent that modulates at least one activity of a protein encoded by a gene in Tables 5A-5XX comprising:
- (a) exposing the protein to the agent; and
  - (b) assaying at least one activity of said protein.
60. A method of claim 59, wherein the agent is exposed to a cell expressing the protein.
61. A method of claim 60, wherein the cell is exposed to a known toxin.
62. A method of claim 61, wherein the toxin modulates the expression of the protein.



REVISED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 August 2003 (14.08.2003)

PCT

(10) International Publication Number  
**WO 2003/065993 A2**

(51) International Patent Classification<sup>7</sup>: **A61K**

(21) International Application Number:  
PCT/US2003/003482

(22) International Filing Date: 4 February 2003 (04.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/353,171	4 February 2002 (04.02.2002)	US
60/363,534	13 March 2002 (13.03.2002)	US
60/370,248	8 April 2002 (08.04.2002)	US
60/371,134	10 April 2002 (10.04.2002)	US
60/371,135	10 April 2002 (10.04.2002)	US
60/371,150	10 April 2002 (10.04.2002)	US
60/371,413	11 April 2002 (11.04.2002)	US
60/373,601	19 April 2002 (19.04.2002)	US
60/373,602	19 April 2002 (19.04.2002)	US
60/374,139	22 April 2002 (22.04.2002)	US
60/378,370	8 May 2002 (08.05.2002)	US
60/378,652	9 May 2002 (09.05.2002)	US
60/378,665	9 May 2002 (09.05.2002)	US
60/378,653	9 May 2002 (09.05.2002)	US
60/394,253	9 July 2002 (09.07.2002)	US
60/394,230	9 July 2002 (09.07.2002)	US
60/407,688	4 September 2002 (04.09.2002)	US
60/442,900	28 January 2003 (28.01.2003)	US

(71) Applicant (for all designated States except US): **GENE LOGIC, INC.** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MENDRICK, Donna** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **PORTER, Mark** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **JOHNSON, Kory** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **HIGGS, Brandon** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD

20787 (US). **CASTLE, Arthur** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **ORR, Michael** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US). **ELASHOFF, Michael** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20787 (US).

(74) Agents: **TUSCAN, Michael, S. et al.**; Morgan, Lewis & Bockius LLP, 1111 Pennsylvania Avenue, NW, Washington, DC 20004 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with declaration under Article 17(2)(a); without abstract; title not checked by the International Searching Authority  
— with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

(48) Date of publication of this revised version:

27 April 2006

(15) Information about Correction:

see PCT Gazette No. 17/2006 of 27 April 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PRIMARY RAT HEPATOCYTE TOXICITY MODELING

(57) Abstract:

WO 2003/065993 A2

# PATENT COOPERATION TREATY

## PCT

### DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rule 13ter.1(c) and 39)

Applicant's or agent's file reference <b>44921-5113WO</b>	<b>IMPORTANT DECLARATION</b>	Date of mailing (day/month/year) <b>19 AUG 2003</b>
International application No. <b>PCT/US03/03482</b>	International filing date (day/month/year) <b>04 February 2003 (04.02.2003)</b>	(Earliest) Priority date (day/month/year) <b>04 February 2002 (04.02.2002)</b>
International Patent Classification (IPC) or both national classification and IPC  IPC(7):        and US Cl.: Applicant <b>GENE LOGIC, INC.</b>		

This International Searching Authority hereby declares, according to Article 17(2)(a), that no international search report will be established on the international application for the reasons indicated below.

1. ☐ The subject matter of the international application relates to:
  - a. ☐ scientific theories.
  - b. ☐ mathematical theories
  - c. ☐ plant varieties.
  - d. ☐ animal varieties.
  - e. ☐ essential biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
  - f. ☐ schemes, rules or methods of doing business.
  - g. ☐ schemes, rules or methods of performing purely mental acts.
  - h. ☐ schemes, rules or methods of playing games.
  - i. ☐ methods for treatment of the human body by surgery or therapy.
  - j. ☐ methods for treatment of the animal body by surgery or therapy.
  - k. ☐ diagnostic methods practised on the human or animal body.
  - l. ☐ mere presentations of information.
  - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.
2. ☒ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:
 

☒ the description
☒ the claims
☐ the drawings
3. ☐ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:
 

☐ the written form has not been furnished or does not comply with the standard.  
☐ the computer readable form has not been furnished or does not comply with the standard.

**4. Further comments:**

The claims are incomplete and incomprehensible. Each of the independent claims (i.e., claims 1, 6-10, 32, 39, 44, and 59) refers to at least 50 different tables in the application. Thus, the claims are incomplete (see PCT Rule 6.2(a)). In addition, the reference to the tables makes the claims incomplete in the sense that the tables themselves are incomplete in that they do not disclose genes per se. Each of claims 6-10, 32, 39, 44, and 59 refers to "genes" in or from the tables (either Tables 5A-5XX or Tables 1-5XX). Since no "genes" and their boundaries are clearly disclosed in the Tables, the claims are not complete or comprehensible or understandably clear to the extent that a meaningful search can be performed. Finally, claim 1 recites "toxic effect on a tissue or cell" and "adequate amount of the data or information of Tables 5A-5XX." The vagueness and indefiniteness of these terms are such that the claims are incomprehensible and thus no meaningful search can be performed.